AbdelAlim, A. M., 29
Abramson, F. P., 223
Abramson, F. P., 229
Abramson, F. P., 881
Ager, D. J., 97
Agranat, I., 772
Agrawal, Y. K., 190
Akers, M. J., 103
Al-Badr, A. A., 596
Alexander, K. S., 97
Alkner, U., 1085
Alpert, J. S., 952
Alvinerie, M., 251
Ambrogi, V., 784
Amidon, G., 195
Amidon, G. L., 271
Amidon, G. L., 468
Amidon, G. L., 858
Amidon, G. L., 934
Amidon, G. L., 940
Amidon, G. L., 1207
Andersen, D., 1076
Andrews, P. R., 133
Arita, T., 57
Arshady, R., 256
Artursson, P., 697
Artursson, P., 962
Ascenzi, P., 1171
Augsburger, L. L., 291
Augustine, M. A., 62
Augustine, M. A., 491
Augustine, M. A., 1208
Aungst, B. J., 218
Avram, M. J., 919
Awazu, S., 474
Awni, W. M., 1151
Axelson, J. E., 685
Baba, S., 161
Babcock-Atkinson, E., 688
Bajka, E., 44
Baker, J. K., 614
Banijamali, A. R., 1180
Bannwarth, B., 590
Bartsch, H., 831
Baskin, D. G., 259
Bass, L., 321
Batra, V. K., 1014
Batra, V. K., 1208
Bauer, L. A., 823
Bauza, M. T., 47
Baxter, J. G., 442
Bayne, W. F., 820
Beamer, R. L., 769
Benamghar, L., 590
Benet, L. Z., 129
Benet, L. Z., 241
Benghiat, E., 142
Benita, S., 847
Benjamin, E., 44
Bennett, L. K., 769
Benoit, J.-P., 847
Benotti, J. R., 952
Benoît, J.-P., 750
Berardi, R. R., 271
Berardi, R. R., 1207
Bernhard, R., 150
Bernstein, D. F., 491
Berryhill, W., 182
Beyger, J. W., 573
Bhatti, A. S., 97
Bijdendijk, J., 117
Blackburn, J. S., 97
Bodor, N., 29
Bogardus, J. B., 208
Bogardus, J. B., 1081
Boger, D. L., 823
Bolognesi, M., 1171
Boots, S. G., 1
Boots, S. G., 221
Boots, S. G., 1017
Boots, S. G., 1117
Borchardt, R. T., 220
Borsa, M., 1207
Bortolotti, F., 1171
Bothwell, W. M., 1107
Boxenbaum, H., 1053
Brabec, R. K., 940
Brady, P. M., 952
Brass, C., 442
Brauns, U., 571
Brechner, R. R., 873
Breimer, D. D., 917
Brodersen, R., 669
Brodin, A., 608
Bronaugh, R. L., 486
Bronaugh, R. L., 1094
Brotherton, R. J., 706
Brouwer, K. R., 451
Brown, C. M., 80
Buchardt, O., 1076
Buchmann, M., 68
Bucks, D. A. W., 968
Bundgaard, H., 36
Bundgaard, H., 521
Bundgaard, H., 775
Burn, P., 1010
Burnette, R. R., 738
Burrell, D. E., 904
Bustamante, P., 639
Buur, A., 521
By, A. W., 787
Byrn, S. R., 596
Byron, P. R., 108
Byron, P. R., 168
Byron, P. R., 432
Byron, P. R., 756
Byron, P. R., 1207
Calabrese, E. J., 1041
Caplan, N. B., 146
Carlström, E. M., 968
Caron, J.-C., 973
Caroon, J. M., 80
Carstensen, J. T., 546
Carstensen, J. T., 552
Carstensen, J. T., 764
Castellani, D. A., 722
Cavalieri, R. R., 233
Cecchi, L., 1175
Chan, K. K. H., 897
Chandrasekaran, S. K., 727
Chang, R.-K., 717
Chang, S.-L., 455
Chaudhry, S., 999
Cheen, P.-C., 62
Chen, C.-M., 208
Chi, L.-H., 534
Chi, L.-H., 542
Chinoin, I., 1076
Chowhan, Z. T., 534
Chowhan, Z. T., 542
Chu, S.-Y., 158
Citerio, L., 1207
Clark, A. M., 614
Clark, R. D., 80
Clark, R., 168
Clayton, L. M., 288
Cohen, A., 688
Cohen, L., 976
Cohen, S., 462
Cohen, S., 772
Colburn, W. A., 921
Condie, L., Jr., 1098
Conway, W. D., 664
Cooperstein, M., 447
Coppola, W. P., 208
Corcoran, G. B., 878
Cossum, P. A., 731
Coutts, R. T., 438
Couvreur, P., 955
Cox, J. W., 1107
Cradock, J. A., 301
Craft, J. B. Jr., 881
Craik, D. J., 133
Crommelin, D. J. A., 117
Crommelin, D. J. A., 496
Crooks, P. A., 142
Crooks, P. A., 949
Crooks, P. A., 1010
Crooks, P. A., 1081
Cubeddu, L. X., 146
Cubeddu, L. X., 1195
Curran, N. M., 1207
Cutler, D. J., 1068
Cutler, D. J., 1141
D'Argenio, D. Z., 873
Daemen, M. J. A. P., 238
Daemen, M. J. A. P., 1137
Dahalan, R., 873
Daniotti, S., 680
Dannan, H., 1081
Davis, R., 307
Davis, S. S., 16
de Boer, A. G., 917
de Moreno, M. R., 907
de Smidt, J. H., 496
DeAngelis, N. J., 714
DeAngelis, N. J., 1208
Dedrick, R. L., 120
Dedrick, R. L., 1047
DeMarinis, R. M., 925
DeMark, B. R., 838
Derendorf, H., 995
Derendorf, H., 1198
DeSantis, L., 220
Devissaguet, J. P., 955
Dimmitt, D. C., 582
Dix, L. P., 447
Docks, E. L., 706
Dollimore, D., 97
Doluisio, J. T., 47
Donnell, D., 772
Doyle, E., 813
Drader, K. S., 438
Drake, M. V., 278
Dressman, J. B., 104
Dressman, J. B., 109
Dressman, J. B., 271
Dressman, J. B., 1207
Driscoll, J. S., 313
Duffel, M. W., 727
Duraiswamy, N., 1098
Durrwachter, J. R., 83
Dvorchik, B. H., 869
Ebian, A. R., 644
Ebling, W. F., 760
Edman, P., 728
Egle, J. L., 825
Egle, J. L., 829
Elmarakby, S. A., 614
ElSohly, M. A., 728
Emmick, K., 455
Ernerot, L., 608
Etman, M. A., 644
Ettinger, B., 129
Falch, E., 36
Falch, E., 775
Falzone, C. J., 501
Farnsworth, N. R., 317
Fayolle, P. M., 251
Feldkamp, J. R., 297
Ferguson, R. K., 150
Ferrante, L., 680
Ferry, D. G., 146
Filacchioni, G., 1175
Fini, A., 23
Finley, R. A., 158
Fisher, J. W., 304
Fitzpatrick, F. A., 1107
Flanagan, D. R., 1104
Fleisher, D., 109
Fleisher, D., 271
Fleisher, D., 468
Fleisher, D., 934
Fleisher, D., 1207
Fleitman, J. S., 842
Flynn, G. L., 478
Flynn, G. L., 1098
Fokkens, J. G., 496
Fong, H. H. S., 317
Fong, H. H. S., 829
Foschi, D., 680
Foye, W. O., 1180
Frankhouser, M. C., 714
Frankhouser, M. C., 1208
Frazier, D. L., 447
Friedman, M., 959
Fruncillo, R. J., 150
Fung, H.-L., 247
Fung, L. W.-M., 654
Furlani, A., 784
Furman, P., 107
Futch, G., 706
Fyhr, P., 608
Galante, R. N., 107
Gale, D. J., 133
Galinsky, R. E., 878
Garay, G. L., 307
Garrett, E. R., 1127
Gaskill, J. L., 26
Gengo, F. M., 722
George, W. J., 702
Gershanik, J. J., 702
Giacomini, K. M., 601
Giannini, R. P., 26
Gienger, G., 9
Giesing, D. H., 582
Gillespie, W. R., 1119
Gipps, E. M., 256
Glaser, R., 772
Godin, C. S., 949
Golub, A., 688
Gomyoda, M., 1190
Gonen, A., 959
Gonzalez, M. A., 688
Goodwin, R., 142
Gotz, V. P., 995
Grandolini, G., 784
Grasela, T. H., Jr., 824
Griffin, T. S., 706
Grijseels, H., 496
Groscurth, P., 256
Guarneri, M., 1171
Gupta, S. K., 586
Guterman, L. R., 501
Guy, R. H., 968
Guzman, A., 307
Gwilt, P. R., 586
Gwilt, P. R., 8234
Haces, A., 313
Hall, I. H., 530
Hall, I. H., 622
Hall, I. H., 706
Hamaguchi, T., 891
Hanano, M., 3
Hanano, M., 672
Hanano, M., 1162
Hansen, G., 886
Hansen, H. F., 1076
Harman, M., 165
Harris, A. S., 1085
Hashida, M., 1166
Hassan, M. M. A., 596
Hatch, F., 886
Hayashi, M., 474
Haynes, J. D., 1014
Haynes, J. D., 1208
Heideman, R. L., 313
Helton, D. O., 83
Hem, S. L., 297
Henthorn, T. K., 919
Hersh, M. R., 815
Hickey, A. J., 728
Hickey, A. J., 756
Higuchi, W. I., 478
Hill, M. D., 881
Hinderling, P. H., 516
Hinz, R. S., 968
Hirai, S., 323
Ho, I., 47
Ho, J. C., 664

Ho, N. F. H., 1098
Hoelgaard, A., 726
Hofmann, A. F., 288
Hoholick, C., 155
Holshouser, M. H., 527
Holshouser, M. H., 619
Honigberg, I. L., 161
Horie, T., 474
Howard, S., 65
Hruby, V. J., 323
Hsu, M. J., 579
Hsyu, P.-H., 601
Huang, J.-D., 923
Hufford, C. D., 614
Hui, H.-W., 280
Huq, A. S., 1098
Hurwitz, S. J., 912
Hurwitz, S. J., 1207
Hussain, A. A., 1081
Hussain, M. A., 218
Hwang, K. J., 259
Hwang, S. S., 820
Ichikawa, T., 672
Iga, T., 1162
Iga, T., 3
Igarashi, T., 1071
Illum, L., 16
Imbimbo, B. P., 680
Indelicato, J. M., 304
Ishida, S., 672
Ito, Y., 1190
Iwatsubo, T., 1162
Jackson, S. E., 648
Jacobs, H., 172
Jaeger, H., 244
Jagst, C., 158
Jamali, F., 438
Jamali, F., 1006
Jarrott, B., 511
Jensen, C. B., 215
Jensen, R. B., 1076
Jetzer, W. E., 1098
Johns, W. H., 208
Johnson, B. A., 529
Johnson, D., 195
Johnson, E. L., 1003
Johnson, K. C., 934
Johnson, M., 823
Jonkman, J. H. G., 825
Juenge, E. C., 724
Juliano, R. L., 579
Jusko, W. J., 760
Kajii, H., 474
Kajiwara, A., 612
Kajiwara, A., 1188
Kakutani, T., 1166
Kaliszan, R., 187
Kallmerten, J., 108
Kaltenbach, M., 1198
Kaneniwa, N., 505
Kasuya, Y., 161
Kaufman, K. L., 1208
Kaufmann, K. L., 714
Kawaguchi, T., 992
Kelley, A. K., 904
Kelley, J. A., 313
Kellogg, M. S., 107
Kempenaar, J., 973
Kenley, R. A., 648
Kenley, R. A., 842
Kenley, R. A., 999
Kesselring, U. W., 68
Kézdy, F. J., 976
Khawam, M. N., 1081
Khoury, N., 65
Kilpatrick, D., 731
Kim, K. H., 637
Kim, S. W., 172
King, S.-Y. P., 247
Kinkel, W. R., 722
Kinoshita, H., 711
Kitagawa, H., 1071
Klayman, D. L., 797
Knapp, G., 161
Knoch, A, 9
Koch, S. A. M., 744
Kohri, N., 57
Kolb, M., 527
Kolb, M., 619
Konechnik, T. J., 297
Konishi, R., 676
Koogan, T. S., 97
Koritz, G. D., 251
Koshakji, R. P., 87
Koupparis, M. A., 800
Kovacic, P., 105
Kowaluk, E. A., 562
Kowarski, A. A., 78
Kowarski, C. R., 78
Kramer, W. G., 275
Krause, H. J., 579
Krejcie, T. C., 919
Kreuter, J., 256
Krishnan, R., 1185
Kugler, P. N., 1019
Kurihara-Bergstrom, T., 478
Laakso, T., 962
Lamontanaro, D., 1192
Lang, S. A., Jr., 1185
Lankelma, J., 1201
Lanman, R. C., 582
Lapicque, F., 590
Larsen, C., 36
Larsen, C. G., 669
Larsen, C., 775
Larsen, F. G., 669
Lassman, H. B., 47
Lau, S. H., 976
Laus, M., 23
Lawrence, W. H., 106
Le Verge, R., 955
Leahy, D. E., 629
Leahy, D. E., 1157
Ledewyn, S., 883
Lee, R. M., 813
Lertora, J. J. L., 702
Lesko, L. J., 952
Levy, G., 722
Liaou, M. Y., 78
Lin, A. J., 797
Lin, A., 894
Lindquist, J., 608
Lipper, R. A., 208
Liron, Z., 462
Liversidge, G. G., 828
Lovering, E. G., 1207
Lucacchini, A., 1175
Ludden, T. M., 815
Ludden, T. M., 829
Lui, C. Y., 271
Lui, C. Y., 468
Lui, C. Y., 1207
Luk, H. T., 73
Luke, D. R., 155
Luu, R. P. T., 68
MacGregor, T., 886
Macheras, P. E., 692
Macheras, P. E., 1145
MacIntyre, A. C., 1068
Magnusson, J. O., 516
Maibach, H. I., 968
Maincent, P., 955
Mar, H., 259
Marchion, C., 150
Markey, S. P., 827
Markey, S. P., 827
Marrero, D., 738
Marshall, K., 291
Martin, A., 462
Martin, J., 590
Martin, Y. C., 637
Martini, C., 1175
Massarella, J., 894
Matsui, F., 1207
Matsushita, Y., 193
Maturu, P. K., 1205
Mauger, J., 65
Maurette, J. M., 244
Max, D., 158
McCarthy, T. J., 912
McCarthy, T. J., 1207
McChesney, J. D., 1116
McCloskey, S. E., 702
McCracken, M. S., 838
McCue, J. E., 952
McCulla, B. A., 813
McKellop, K., 886
McKenzie, A. T., 596
McNamara, P. J., 451
McNamara, D. P., 858
Mefford, I. N., 827
Mefford, I. N., 827
Mehta, R., 579
Mehvar, R., 1006
Melani, F., 1175
Melethil, S., 664
Mendel, C. M., 233
Menegatti, E., 1171
Merkle, H. P., 9
Michaelis, K., 244
Michel, M. E., 165
Mico, B. A., 90
Mico, B. A., 925
Mikkelson, T. J., 36
Mikkelson, T. J., 775
Milsap, R. L., 760
Mirejovsky, D., 1089
Miyamoto, Y., 1162
Miyauchi, S., 3
Miyazaki, K., 57
Mizuno, N., 891
Mochida, K., 1190
Molin, L., 516
Monot, C., 590
Moody, J., 1192
Mooseman, K. A., 97
Mordenti, J., 852
Mordenti, J., 1028
Morefield, E. M., 297
Mori, K.-I., 57
Moriguchi, I., 193
Morin, D., 883
Moriyama, H., 606
Morris, M. E., 722
Morrison, P. F., 120
Mosher, G. L., 775
Muchowski, J. M., 307
Mufson, D., 491
Muhvic, G. M., 97
Muller, B. W., 571
Muller, N., 987
Mullersman, G., 995
Munafo, A., 68
Munro, S. L, 133
Murthy, A. R. K., 530
Murthy, A. R. K., 622
Musallam, H. A., 728
Mårtensson, I.-L., 697
Nairn, J. G., 573
Nakajima, K., 606
Nakamaru, R., 711
Nakamura, J., 676
Nam-Tran, H., 68
Narasimhan, C., 654
Needham, T. E., 102
Nelson, W. L., 822
Netter, P., 590
Neville, G. A., 787
Nichols, D. E., 102
Nielsen, P. E., 1076
Nightingale, C. H., 1063
Nilsson, I. M., 1085
Nixon, J. R., 831
Noonan, P. K., 241
Noonan, P. K., 688
O'Donnell, J. J., 278
O'Neill, I. K., 831
Oberle, R., 468
Ockene, I. S., 952
Ofner, C. M., III, 790
Ofner, C. M., III, 1208
Ogger, K. E., 1113
Ohizumi, Y., 612
Ohizumi, Y., 1188
Ohmori, S., 1071
Okhawara, S., 1071
Okiyama, M., 1071
Orienti, I., 23
Oshima, Y., 317
Osterop, A. P. R. M., 1201
Otsuka, M., 505
Pachla, L. A., 1003
Palazzino, G., 1175
Partridge, I. W., 842
Pasini, C. E., 304
Pasutto, F. M., 438
Patarapanich, C., 1180
Patel, B., 204
Patel, D. R., 190
Patel, V. S., 275
Paveenbampen, C., 1192
Pawson, B. A., 828
Payton, R., 808
Peck, G. E., 297
Pelsor, F. R., 161
Pennacchi, E., 1175
Penning, T. M., 826
Pento, J. T., 726
Pezzuto, J. M., 317
Phuoc, N. H., 68
Pifferi, G., 1207
Pinedo, H. M., 1201
Pitha, J., 165
Polack, A. E., 562
Polansky, J. R., 278
Ponec, M., 973
Povey, A.C., 831
Powell, J. R., 1195
Powell, M. F., 901
Prasad, V. K., 1205
Pritchard, J. F., 869
Pullen, R. H., 1107
Puri, S. K., 47
Purich, E., 1014
Quintiliani, R., 1063
Rabinow, B., 808
Radebaugh, G., 726
Raghavan, N., 808
Ray, M., 688
Regen, S. L., 579
Rehm, C., 1192
Reif, V. D., 714
Reif, V. D., 1208
Renzi, N. L., 869
Repke, D. B., 80
Reppas, C. I., 692
Reppas, C. I., 1145
Retzinger, G. S., 976
Reynolds, D. L., 1003
Riad, L. E., 897
Richheimer, S. L., 215
Riviere, J. E., 447
Roberts, M. S., 562
Roberts, M. S., 731
Roberts, N. S. R., 168
Robinson, J. R. 280
Rocci, M. L. Jr., 155
Rodriguez-Hornedo, N., 552
Rodriguez-Hornedo, N., 559
Rogers, S. J., 813
Rollins, D. E., 158
Rooks, W. H., 307
Rossi, C., 784
Rossi, S. S., 288
Roth, J. S., 313
Rottman, F., 142
Rubin, G. M., 660
Rubino, J. T., 182
Rubinstein, A., 959
Ruelle, P., 68
Ruggirello, D., 688
Rurak, D. W., 685
Rurich, E., 1208
Russell, A. S., 438
Russell, W. L., 995
Ryan, J. A., 805
Rybolt, T. R., 904
Sado, P., 955
Saito, K., 1190
Saito, N., 1188
Saito, Y., 606
Sakiya, Y., 672
Saleh, A. M., 644

Sammons, M. C., 838
Sanders, S. W., 244
Sandmann, B. J., 73
Saporiti, F., 680
Sarantonis, E. G., 800
Sarpotdar, P. P., 26
Sarpotdar, P. P., 176
Sasaki, H., 676
Sasaki, H., 1166
Sato, H., 3
Sato, T., 606
Sawada, M., 711
Sawada, Y., 3
Sawada, Y., 672
Sawchuk, R. J., 897
Sawchuk, R. J., 1151
Scalia, S., 1171
Scarcia, V., 784
Schentag, J. J., 442
Schott, H., 790
Schott, H., 1208
Schuregers, N., 117
Sellés, E., 639
Sennello, L. T., 158
Serajuddin, A. T. M., 62
Serajuddin, A. T. M., 491
Serajuddin, A. T. M., 1208
Severin, G., 208
Sewell, R. D. E., 1010
Sezaki, H., 1166
Shah, K. B., 291
Shah, V. P., 161
Shah, V. P., 1113
Shanks, C. A., 919
Sheen, P. C., 1208
Sheen, P.-C., 491
Shefter, E., 218
Shibasaki, J., 676
Shinkuma, D., 891
Shinohara, Y., 161
Shiu, G. K., 1205
Shoji, N., 612
Shoji, N., 1188
Shroot, B., 973
Shults, J. M., 904
Shunko, Y., 648
Shyu, W. C., 1127
Siegel, R. A., 627
Silvestri, T., 894
Simon, M., 1094
Sims, B., 97
Singh, N. N., 438
Siver, K. G., 744
Sjöholm, I., 697
Sjöholm, I., 962
Skelly, J. P., 1205
Skelton, D., 1006
Slaughter, R. L., 442
Sloan, K. B., 744
Smith, J. F., 907
Smith, R. V., 47
Smith, R. V., 907
Smits, J. F. M., 1137
Speiser, P. P., 256
Spenlehauer, G., 750
Srebrenik, S., 462
Stevens, L. E., 83
Stewart, B. H., 934
Stewart, B. H., 940
Stewart, R. F., 486
Stewart, R. F., 1094
Stout, P. J. M., 65
Strosberg, A. M., 80
Struyker-Boudier, H. A. J., 1137
Suber, R. L., 103
Sugiyama, Y., 3
Sugiyama, Y., 1162
Suzuki, T., 193
Suzuki, Y., 992
Svensson, C. K., 946
Swagzdis, J. E., 90
Swagzdis, J. E., 925
Swanson, B. N., 150
Swarbrick, J., 53
Swarbrick, J., 264
Swarbrick, J., 1207
Sweeney, T. R., 728
Sy, W.-W., 787
Szefler, S. J., 760
Sörgel, F., 129
Takahashi, T., 676
Takemoto, T., 612
Takemoto, T., 1188
Takruri, H., 1089
Tanaka, S., 711
Taylor, S. M., 685
Thijssen, H. H. W., 238
Thijssen, H. W. W., 1137
Thoman, C. J., 983
Thomas, N. W., 16
Tillement, J. P., 883
Tohira, Y., 711
Tolman, K. G., 158
Tomlinson, J., 688
Tomolonis, A. J., 307
Toutain, P. L., 251
Tozer, T. N., 660
Triggle, D. J., 105
Triggle, D. J., 822
Tsukiori, M., 193
Tukker, J. J., 117
Tyle, P., 822
Tzou, M.-C., 923
Uchiyama, M., 92
Uchiyama, M., 458
Uchiyama, M., 1207
Uchiyama, M., 1208
Ueno, K., 1071
Ulubelen, A., 1127
Umeyama, A., 612
Umeyama, A., 1188
Upton, N., 1010
van der Poort, S. E. J. M., 1201
van der Vijgh, W. J. F., 1201
van Essen, H., 1137
van Hoogdalem, E. J., 917
VanderLugt, J. T., 1107
Varin, F., 1195
Veillard, M., 750
Velarde, E., 307
Veng-Pedersen, P., 818
Veng-Pedersen, P., 1119
Vervoort-Peters, H. T. M., 238
Vidi, A., 680
Visconti, M., 1207
Vishnuvajjala, B. R., 301
Visor, G. C., 44
Visor, G. C., 648
Visor, G. C., 999
Wagner, W. E. Jr., 897
Wagner, Z. G., 1085
Wait, A. R., 1157
Wall, M. E., 825
Waller, E. S., 47
Wang, J. C. T., 204
Waters, D. H., 586
Watson, J. R., 1207
Watson, M. W. B., 1006
Webb, V. J., 97
Wedlund, P. J., 455
Weenen, H., 1201
Weiner, B. H., 952
Weinstein, I., 104
Weisiger, R. A., 233
Welling, P. G., 921
Wells, C. E., 724
Weng, H.-L., 1104
White, J. L., 297
White, L., 702
Whiting, R. L., 80
Wiessner, J. H., 259
Wilson, G. E., Jr., 501
Wilson, W. L., 787
Winterle, J. S., 648
Wittendorf, R. W., 925
Wolf, W., 873
Wolnik, K., 724
Wong, B. K., 878
Wong, S.-M., 317
Wood, A. J. J., 87
Wood, J. H., 103
Worland, P. J., 511
Worsley, W. N., 1205
Wright, J. L., 546
Wurster, D. E., 1104
Wynalda, M. A., 1107
Wyrick, S. D., 530
Wyrick, S. D., 622
Yamanaka, Y., 891
Yamaoka, K., 606
Yang, T-T., 1207
Yang, T.-T., 53
Yang, T.-T., 264
Yang, Y.-W., 719
Yates, F. E., 1019
Yonezawa, Y., 764
Yong, A. C., 731
Yoo, S. D., 685
Yorgey, K. A., 869
Yoshioka, S., 92
Yoshioka, S., 458
Yoshioka, S., 1207
Yoshioka, S., 1208
Youngberg, C., 271
Youngberg, C., 1207
Yu, D. K., 582
Yuasa, H., 1162
Zarembo, J., 1192
Zatz, J., 176
Zecchi, V., 23
Zhi, J., 1063
Zini, R., 883
Zografi, G., 529
Zografi, G., 719
Zouai, O., 847

SUBJECT INDEX

Absorption
Intranasal Delivery of Nicardipine in the Rat, 44
Pharmacology of Intestinal Permeation I and II (Csaky, book reviews), 104
Respiratory Pharmacology and Toxicology (Hollinger, book reviews), 108
Mixing-Tank Model for Predicting Dissolution Rate Control of Oral Absorption, 109
Comparison of Four Experimental Techniques for Studying *Drug Absorption Kinetics in the Anesthetized Rat In* Situ, 117
Hydrophilic Cyclodextrin Derivatives Enable Effective Oral *Administration of Steroidal Hormones*, 165
An Isolated Perfused Rat Lung Preparation for the Study of Aerosolized Drug Deposition and Absorption, 168
Comparison of Gastrointestinal pH in Dogs and Humans: Implications on the Use of the Beagle Dog as a Model for Oral Absorption in Humans, 271
Allopurinol Absorption from Different Sites of the Rat Gastrointestinal Tract, 275
Pharmacodynamic Measurement of Percutaneous Penetration Enhancement In Vivo, 374
Influence of Skin Source, Penetration Cell Fluid, and Partition Coefficient on In Vitro Skin Penetration, 378
Prevention of Molecular Self-Association by Sodium Salicylate: Effect on Methylene Blue, 384
Contribution of Calcium Ion Sequestration by Polyoxyethylated Nonionic Surfactants to the Enhanced Colonic Absorption of *p*-Aminobenzoic Acid, 387
Enhancement of Bioavailability of Cinnarizine from Its β-Cyclodextrin Complex on Oral Administration with DL-Phenylalanine as a Competing Agent, 391
Effect of Food on the Bioavailability of Lisinopril, a Nonsulfhydryl Angiotensin-Converting Enzyme Inhibitor, 395
Prediction of Drug Residence Times in Regions of the Human Respiratory Tract Following Aerosol Inhalation, 433
Use of Simultaneous Computer Fitting to Estimate the *Apparent Absorption Rate Constant*, 452
Application of a Radiotelemetric System to Evaluate the Performance of Enteric Coated and Plain Aspirin Tablets, 469
Effects of Salicylic Acid on the Permeability of the Plasma Membrane of the Small Intestine of the Rat: a Fluorescence Spectroscopic Approach to Elucidate the Mechanism of Promoted Drug Absorption, 475
Physicochemical Study of Percutaneous Absorption Enhancement by Dimethyl Sulfoxide: Kinetic and Thermodynamic Determinants of Dimethyl Sulfoxide Mediated Mass Transfer of Alkanols, 479
Methods for In Vitro Percutaneous Absorption Studies VI: Preparation of the Barrier Layer, 487
Prodrugs of 5-Fluorouracil V. 1-Alkoxycarbonyl Derivatives as Potential Prodrug Forms for Improved Rectal or Oral Delivery of 5-Fluorouracil, 522
Absorption and Disposition of Aluminum in the Rat, 586
Intestinal Absorption of 5-Fluorouracil and Its Alkylcarbamoyl Derivatives in the Rat Small Intestine, 676
Discontinuous Oral Absorption of Cimetropium Bromide, a New Antispasmodic Drug, 680
Relative Bioavailability of a New Transdermal Nitroglycerin Delivery System, 688
Evaluation of Drug Absorption and Presystemic Metabolism Using an In Situ Intestinal Preparation, 869
Simultaneous First- and Zero-Order Absorption of *Carbamazepine Tablets in Humans*, 897
Complete Rectal Absorption of Theophylline in Rats Without Absorption Enhancer, 917
Pharmacokinetics of Dopamine-2 Agonists in Rats and Dogs, 925
Oral Absorption of 21-Corticosteroid Esters: A Function of Aqueous Stability and Intestinal Enzyme Activity and Distribution, 934
Uptake of Prodrugs by Rat Intestinal Mucosal Cells: Mechanism and Pharmaceutical Implications, 940
Percutaneous Penetration of Nicotinates: In Vivo and In Vitro Measurements, 968
Noncompartmental Determination of the Absorption Rate Constant, 1014
Intranasal Administration of Peptides: Nasal Deposition, Biological Response, and Absorption of Desmopressin, 1085
Absorption of Cyclosporine from Rabbit Small Intestine In *Situ*, 1151
Effects of Potential Damaging Agents on the Microclimate-pH in the Rat Jejunum, 1162
Comparison of Gastrointestinal pH in Dogs and Humans: Implications on the Use of the Beagle Dog as a Model for Oral Absorption in Humans correction, 1207
Prediction of Drug Residence Times in Regions of the Human Respiratory Tract Following Aerosol Inhalation correction, 1207
Noncompartmental Determination of the Absorption Rate Constant correction, 1208

Acenocoumarol
Apparent Dose Dependency of the Hepatic (*S*)-Acenocoumarol Clearance in the Rat: a Study using Open Liver Biopsies, 238

Acetaminophen
Effect of Acetaminophen on Inorganic Sulfate Concentrations in Human Cerebrospinal Fluid, 722
Dissociation of Increased Sulfation from Sulfate Replenishment and Hepatoprotection in Acetaminophen-Poisoned Mice by *N*-Acetylcysteine Stereoisomers, 878
In Vitro Coadsorption of Acetaminophen and N-Acetylcysteine onto Activated Carbon Powder, 904

Acetoxyethoxymethylthiosemicarbazones
Synthesis and Antimicrobial Activities of N^4-(2-Acetoxyethoxymethyl)thiosemicarbazones and N^3-(2-Acetoxyethoxymethyl)thioureas, 1180

Acetoxyethoxymethylthioureas
Synthesis and Antimicrobial Activities of N^4-(2-*Acetoxyethoxymethyl)thiosemicarbazones and* N^3-(2-Acetoxyethoxymethyl)thioureas, 1180

Acetylcholinesterase reactivators
Stability Studies of Bis(Pyridiniumaldoxime) Reactivators of Organophosphate-Inhibited Acetylcholinesterase, 797

***N*-Acetylcysteine**
Dissociation of Increased Sulfation from Sulfate Replenishment and Hepatoprotection in Acetaminophen-Poisoned Mice by *N-Acetylcysteine Stereoisomers*, 878
In Vitro Coadsorption of Acetaminophen and *N*-Acetylcysteine onto Activated Carbon Powder, 904

***N*-Acetylphenylalanine ethyl ester**
The Effect of Enzymatic Reaction on Dissolution Rate: *Theoretical Analysis and Experimental Test*, 195

α_1-acid glycoprotein
Interaction Between Antidepressants and Alpha$_1$-Adrenergic Receptor Antagonists on the Binding to Alpha$_1$-Acid Glycoprotein, 146
Elevated Plasma Glycoproteins in Fetal Sheep Do Not Bind *Basic Lipophilic Drugs*, 881
Inhibition of Binedaline Binding to Human α_1-Acid Glycoprotein and Other Serum Proteins by Chlorpromazine, Imipramine, and Propranolol, 883

Activated charcoal
In Vitro Coadsorption of Acetaminophen and N-Acetylcysteine onto Activated Carbon Powder, 904
The Effect of Activated Charcoal on the Volume of Distribution *of Drugs*, 923

Acyclovir
Water Soluble Complexes of the Antiviral Drugs, 9-[(1,3-Dihydroxy-2-propoxy)methyl]guanine and Acyclovir: The Role of Hydrophobicity in Complex Formation, 648

Adhesion
Adhesion of Hydroxypropyl Cellulose Films to Low Energy Solid Substrates, 529

β-Adrenergic antagonist
Quantitation of the Ultra Short Acting β-Adrenergic Antagonist *Flestolol in Blood by Liquid Chromatography*, 424

β-Adrenoceptor blocking agents
High Performance Liquid Chromatographic Determination of the Enantiomers of β-Adrenoceptor Blocking Agents in Biological Fluids I: Studies with Pindolol, 601

Adsorption energy
Determination of Partial Solubility Parameters of Lactose by Gas–Solid Chromatography, 68

Aerosol delivery
Respiratory Pharmacology and Toxicology (Hollinger, book reviews), 108
An Isolated Perfused Rat Lung Preparation for the Study of Aerosolized Drug Deposition and Absorption, 168

Prediction of Drug Residence Times in Regions of the Human Respiratory Tract Following Aerosol Inhalation, 433
Preparation, Characterization, and Controlled Release from Coprecipitates of Fluorescein and Magnesium Hydroxide, 756
Prediction of Drug Residence Times in Regions of the Human *Respiratory Tract Following Aerosol Inhalation* correction, 1207

Alcohol
The Substance Abuse Problems, vol. 2—New Issues for the 1980s (Cohen, book reviews), 825

Allopurinol
Allopurinol Absorption from Different Sites of the Rat Gastrointestinal Tract, 275

Aluminum
Absorption and Disposition of Aluminum in the Rat, 586

Aluminum hydroxide
Effect of Shear on the Apparent Viscosity of Amorphous Carbonate Ion Containing *Aluminum Hydroxide* Suspensions, 297
Role of Water in the Aging of Aluminum Hydroxide *Suspensions*, 403
Action of Hydrochloric Acid on Aluminum Hydroxide–Magnesium Hydroxide Gels and Magaldrate: Quasi-Elastic Light Scattering Studies, 502

Amines
Neuromethods: vol. 2. Amines and Their Metabolites (Boulton, Baker, and Baker, book reviews), 827

Aminimides
2,2′-Phthaloyl-, 2,2′-Isophthaloyl-, and 2,2′-Terephthaloylbis[1,1,1-trimethylhydrazinium] Dihydroxide, *Bis(Inner Salts): Synthesis, Partition Coefficients, Toxicity* and Effect on Ganglionic Transmission, 407

(2*S*,3*S*-3-[(2*R*)-2-Amino-2-phenylacetamido]-2-methyl-4-oxo-1-azetidinesulfonic acid
Intramolecular Nucleophilic Amino Attack in a Monobactam: *Synthesis and Stability of (2S,3S)-3-[(2 R)-2-Amino-2-*phenylacetamido]-2-methyl-4-oxo-1-azetidinesulfonic Acid, 304

Amino acids
Chemistry and Biochemistry of the Amino Acids (Barrett, book reviews), 323
Neuromethods: vol. 3. Amino Acids (Boulton, Baker and Wood, book reviews), 827

***p*-Aminobenzoic acid**
Effects of Solvent Polarity on the Acid Dissociation Constants of Benzoic Acids, 182
Contribution of Calcium Ion Sequestration by Polyoxyethylated Nonionic Surfactants to the Enhanced Colonic Absorption of *p*-Aminobenzoic Acid, 387

Aminobenzonorbornenes
Synthesis and Antinociceptive Properties of a Series of *exo*- and *endo*-6-Hydroxy-2-aminobenzonorbornenes, 1010

Aminotetralins
Antihypertensive Aminotetralins Related to Labetalol and Medroxalol, 80

Amiodarone
Effect of Renal Failure or Biliary Stasis on the Pharmacokinetics of Amiodarone in the Rat, 150

Amitriptyline
^{13}C NMR Studies of the Molecular Flexibility of Antidepressants, 133
Interaction Between Antidepressants and Alpha$_1$-Adrenergic Receptor Antagonists on the Binding to Alpha$_1$-Acid Glycoprotein, 146

Amoxapine
Interaction Between Antidepressants and Alpha$_1$-Adrenergic Receptor Antagonists on the Binding to Alpha$_1$-Acid Glycoprotein, 146

Amphotericin B
Proliposomes: A Novel Solution to an Old Problem, 325
Characterization of Proliposomes, 330
Polymerized Phospholipid Vesicles Containing Amphotericin B: Evaluation of Toxic and Antifungal Activities In Vitro, 579

Analgesic activity
Conformation of Nefopam Hydrochloride, a Novel Analgesic, 772

Analgesic receptor
Molecular Orbital Calculations of Proton Transfer Involving Amines as Models for the Clastic Binding of Opiates with Their Receptor, 769

Analytical profiles
Analytical Profiles of Drug Substances, vol. 14 (Florey, book reviews), 430

Angiotensin converting enzyme
Radioimmunoassay for the Quantitation of Lisinopril and Enalaprilat, 512

Angiotensin converting enzyme inhibitors
Effect of Food on the Bioavailability of Lisinopril, a Nonsulfhydryl Angiotensin-Converting Enzyme Inhibitor, 395

Anthracyclines
Analysis of Doxorubicin, 4′-Epidoxorubicin, and Their *Metabolites by Liquid Chromatography*, 1201

Antiallergy-agents
Robotic Analysis of 3,7-Dimethoxy-4-phenyl-*N*-1*H*-tetrazol-5-yl-4*H*-furo[3,2-*b*]indole-2-carboxamide in Human Plasma, 1003

Antiarrhythmic agents
Effect of Renal Failure or Biliary Stasis on the Pharmacokinetics of Amiodarone in the Rat, 150

Antibacterial activity
Synthesis and Antimicrobial Activities of N^4-(2-Acetoxyethoxymethyl)thiosemicarbazones and N^3-(2-Acetoxyethoxymethyl)thioureas, 1180
Antibacterial Activity of 6,8-Disubstituted-Quinolone-3-Carboxylic Acids, 1185

Antibacterial agents
Separation and Quantitation of Methenamine in Urine by *Ion-Pair Extraction*, 416

Antibiotics
Antibiotics and Chemotherapy: Pharmacokinetics of Sulfonamides Revisited, vol. 34 (Vree and Hekster, book reviews), 103
A Pharmacodynamic Model for the Activity of Antibiotics Against Microorganisms under Nonsaturable Conditions, 1063

Anticancer agents
Plant Anticancer Agents XXXIX: Triterpenes from *Iris missouriensis* (Iridaceae)[1], 317

Antidepressants
^{13}C NMR Studies of the Molecular Flexibility of Antidepressants, 133
Interaction Between Antidepressants and Alpha$_1$-Adrenergic Receptor Antagonists on the Binding to Alpha$_1$-Acid Glycoprotein, 146

Antifungal activity
Polymerized Phospholipid Vesicles Containing Amphotericin B: Evaluation of Toxic and Antifungal Activities In Vitro, 579

Antifungal agents
Pharmacokinetics of Ketoconazole Administered Intravenously to Dogs and Orally as Tablet and Solution to Humans and Dogs, 443

Antihypertensive activity
Antihypertensive Aminotetralins Related to Labetalol and Medroxalol, 80

Antihypertensive agents
Liquid Chromatographic Determination of Guanethidine Salts and Hydrochlorothiazide Using Electrochemical Detection and Ion-Pair Techniques, 413
Liquid Chromatographic Assay Using Electrochemical Detection for the Quantitation of Indoramin in Human Plasma, 421
Radioimmunoassay for the Quantitation of Lisinopril and Enalaprilat, 512

Antileprotic drugs
Sustained-Release Delivery Systems, I: Phase Diagram Studies of Dapsone and Selected Derivatives, 53
Sustained-Release Delivery Systems, II: In Vitro Dissolution of 4,4′-Sulfonylbisbenzamine (Dapsone)—*N*-Dodecanoyl-4,4′-sulfonylbisbenzamine Comelts, 264
Sustained-Release Delivery Systems, I: Phase Diagram Studies of Dapsone and Selected Derivatives correction, 1207

Antimicrobial activity
Synthesis and Antimicrobial Activities of N^4-(2-Acetoxyethoxymethyl)thiosemicarbazones and N^3-(2-Acetoxyethoxymethyl)thioureas, 1180

Antibacterial Activity of 6,8-Disubstituted-Quinolone-3-Carboxylic Acids, 1185

Antimicrobial agents
Pharmacokinetics of Cardiovascular, Central Nervous System, and *Antimicrobial Drugs* (Welling and Tse, book reviews), 829

Antinociceptive properties
Synthesis and Antinociceptive Properties of a Series of *exo*- and *endo*-6-Hydroxy-2-aminobenzonorbornenes, 1010

Antipyrine
Characterization of Antipyrine Autoinduction in the Rat Utilizing A New Microsampling Technique for Serial Blood Sample Collections, 456
Effect of the Immunomodulator Tilorone on Antipyrine Disposition in the Rat, 946

Antisickling agents
Molecular Properties of Cetiedil and its Interactions with Erythrocyte Membranes, 654

Antispasmodic drugs
Discontinuous Oral Absorption of Cimetropium Bromide, a New Antispasmodic Drug, 680

Antitumor activity
Tricyclo[4.2.2.$0^{2,5}$]dec-9-ene-3,4,7,8-tetracarboxylic Acid Diimide: Formulation and Stability Studies, 301
Spiromustine Analogues. Relationships Between Structure, Plasma Stability, and Antitumor Activity, 313

Antiviral drugs
Water Soluble Complexes of the Antiviral Drugs, 9-[(1,3-Dihydroxy-2-propoxy)methyl]guanine and Acyclovir: *The Role of Hydrophobicity in Complex Formation*, 648

Arbaprostil
Plasma Levels of the Prodrug, Arbaprostil, [(15*R*)-15-Methylprostaglandin E_2], and its Active, Antiulcer (15*S*) Epimer in Humans after Single Dose Oral Administration, 1107

Arithmetic mean
Comparison of Harmonic Mean versus Arithmetic Mean Clearance Values, 427

Aspirin
Stability of Aspirin in Solid Mixtures, 97
Application of a Radiotelemetric System to Evaluate the Performance of Enteric Coated and Plain Aspirin Tablets, 469
Extrahepatic Metabolism and Distribution of Aspirin in Vascular Beds of Sheep, 731

Aspirin hypersensitivity
S-Acylation of Cysteine by *O*-Acetylsalicylic Anhydride: A Possible Mechanism for Aspirin Hypersensitivity?, 1081

Azobenzene
Determination of Azobenzene and Hydrabenzene in Phenylbutazone and Sulfinpyrazone Products by High Performance Liquid Chromatography correction, 1207

Benzo(*a*)pyrene
Methods for In Vitro Percutaneous Absorption Studies VI: Preparation of the Barrier Layer, 487

Benzoic acid
Effects of Solvent Polarity on the Acid Dissociation Constants of Benzoic Acids, 182

Benzoic acids
Interactions in the Solid State II: Interaction of Sodium Bicarbonate with Substituted Benzoic Acids in the Presence of Moisture, 546

***N*-Benzoyltyrosine ethyl ester**
The Effect of Enzymatic Reaction on Dissolution Rate: Theoretical Analysis and Experimental Test, 195

Benzyl alcohol
Toxicity of Benzyl Alcohol in Adult and Neonatal Mice, 702
2,3,5-Triphenyltetrazolium Chloride as a Novel Tool in Germicide Dynamics, 912

Bepridil
Pharmacokinetics of Intravenous Bepridil In Patients With Coronary Disease, 952

Bile acids
Determination of Chenodiol Bioequivalence Using an Immobilized Multi-enzyme Bioluminescence Technique, 288

Bile duct ligation
Effect of Renal Failure or Biliary Stasis on the *Pharmacokinetics of Amiodarone in the Rat*, 150

Biliary excretion
Biliary Excretion and Enterohepatic Cycling of Glycyrrhizin in Rats, 672

Biliary stasis
Effect of Renal Failure or Biliary Stasis on the Pharmacokinetics of Amiodarone in the Rat, 150

Binedaline
Inhibition of Binedaline Binding to Human α_1-Acid Glycoprotein and Other Serum Proteins by Chlorpromazine, *Imipramine*, and Propranolol, 883

Bioavailability
Stable-Isotope Methodology in the Bioavailability Study of 17α-Methyltestosterone using Gas Chromatography–Mass Spectrometry, 161
Buccal and Oral Bioavailability of Nalbuphine in Rats, 218
The Bioavailability of Oral Nitroglycerin, 241
Relative Bioavailability of Two Spray Formulations of *Nitroglycerin*, 244
Pharmacokinetics of Methylprednisolone; Methylprednisolone Sodium Succinate, and Methylprednisolone Acetate in Dogs, 251
Determination of Chenodiol Bioequivalence Using an *Immobilized Multi-enzyme Bioluminescence Technique*, 288
Enhancement of Bioavailability of Cinnarizine from Its β-Cyclodextrin Complex on Oral Administration with *DL-Phenylalanine as a Competing Agent*, 391
Effect of Food on the Bioavailability of Lisinopril, a Nonsulfhydryl Angiotensin-Converting Enzyme Inhibitor, 395
Pharmacokinetics of Ketoconazole Administered Intravenously to Dogs and Orally as Tablet and Solution to Humans and Dogs, 443
Application of a Radiotelemetric System to Evaluate the Performance of Enteric Coated and Plain Aspirin Tablets, 469
Preformulation Study of a Poorly Water-Soluble Drug, *α-Pentyl-3-(2-quinolinylmethoxy)benzenemethanol: Selection* of the Base for Dosage Form Design, 492
Prodrugs of 5-Fluorouracil V. 1-Alkoxycarbonyl Derivatives as *Potential Prodrug Forms for Improved Rectal or Oral* Delivery of 5-Fluorouracil, 522
Discontinuous Oral Absorption of Cimetropium Bromide, a New Antispasmodic Drug, 680
Relative Bioavailability of a New Transdermal Nitroglycerin Delivery System, 688
Studies on Drug–Milk Freeze-Dried Formulations I: Bioavailability of Sulfamethizole and Dicumarol Formulations, 692
General Method for Assessing Bioavailability of Drugs Undergoing Reversible Metabolism in a Linear System, 820
Relative Bioavailability of Metaproterenol in Humans Utilizing a Single Dose, Stable Isotope Approach, 886
Bioavailability of Mefenamic Acid: Influence of Food and *Water Intake*, 891
Relative and Absolute Bioavailability of Cibenzoline Capsules and Tablets in Healthy Subjects, 894
Relative Bioavailability: What Reference?, 921
Disposition Kinetics and Oral Bioavailability of Vincamine-Loaded Polyalkyl Cyanoacrylate Nanoparticles, 955
Studies on Freeze-Dried Drug–Milk Formulations II: Effect of Regenerated Fluid Volume on Nitrofurantoin Bioavailability, 1145
Influence of a High Fat Breakfast on the Bioavailability of Theophylline Controlled-Release Formulations: An In Vitro Demonstration of an In Vivo Observation, 1205

Biodegradable polymeric implants
Prolonged Controlled-Release of Nafarelin, a Luteinizing Hormone-Releasing Hormone Analogue, From Biodegradable Polymeric Implants: Influence of Composition and Molecular Weight of Polymer, 356

Bioreduction
Human Erythrocyte Membrane Permeability and Nitroxyl Spin-Label Reduction, 334

Bis(pyridiniumaldoximes)
Stability Studies of Bis(Pyridiniumaldoxime) Reactivators of Organophosphate-Inhibited Acetylcholinesterase, 797

Blood collection
Characterization of Antipyrine Autoinduction in the Rat Utilizing A New Microsampling Technique for Serial Blood Sample Collections, 456

Bornaprine
Microbial Metabolism of Bornaprine, 3-(Diethylamino)propyl 2-Phenylbicyclo[2.2.1]heptane-2-carboxylate, 614

Brain-enhanced chemical delivery systems
Improved Delivery Through Biological Membranes XX[1]: Nicotinamide · Dihydronicotinamide Based Ester-Linked Redox Carrier Systems, 29
Spiromustine Analogues. Relationships Between Structure, Plasma Stability, and Antitumor Activity, 313

Brain tissue
Transport of Cisplatin in Rat Brain Following Microinfusion: an Analysis, 120

Bronchodilator activity
11-Deoxy-11α, 12α-methanoprostaglandin E_2, a Potent, Short-Acting Bronchodilator[1], 307

Bronopol
2,3,5-Triphenyltetrazolium Chloride as a Novel Tool in Germicide Dynamics, 912

Buccal administration
Buccal and Oral Bioavailability of Nalbuphine in Rats, 218

Bupropion
Interaction Between Antidepressants and Alpha$_1$-Adrenergic Receptor Antagonists on the Binding to Alpha$_1$-Acid Glycoprotein, 146
Design and Synthesis of a Hapten for the Radioimmunoassay of Bupropion, 410

^{13}C NMR relaxation parameters
^{13}C NMR Studies of the Molecular Flexibility of Antidepressants, 133

Cadralazine
Degradative Behavior of Cadralazine in Aqueous Solution correction, 1207

Calcium
Calcium in Biological Systems (Rubin, Weiss, and Putney, book reviews), 105

Calcium antagonist
Intranasal Delivery of Nicardipine in the Rat, 44
Sustained Release of Nifedipine from Granules, 57

Calcium ion sequestration
Contribution of Calcium Ion Sequestration by Polyoxyethylated Nonionic Surfactants to the Enhanced Colonic Absorption of *p*-Aminobenzoic Acid, 387

Capillary flow
Use of the Washburn–Rideal Equation for Studying Capillary Flow in Porous Media, 719

Capsule-Filling Machines
An Investigation of Some Factors Influencing Plug Formation and Fill Weight in a Dosing Disk-Type Automatic Capsule-Filling Machine, 291

Captopril
Enzyme Immunoassay for Captopril, 711

Carbamazepine
Simultaneous First- and Zero-Order Absorption of Carbamazepine Tablets in Humans, 897

Carbon disulfide
Cytotoxic Effects of 1,2-Dichloroethane, Nitrobenzene, and Carbon Disulfide on Human KB and Monkey AGMK Cells, 1190

Carbonate ion
Effect of Shear on the Apparent Viscosity of Amorphous Carbonate Ion Containing Aluminum Hydroxide Suspensions, 297

Carcinogens
Trapping of Chemical Carcinogens with Magnetic Polyethyleneimine Microcapsules: I. Microcapsule Preparation and In Vitro Reactivity of Encapsulated Nucleophiles, 831

Cardiovascular drugs
Pharmacokinetics of Cardiovascular, Central Nervous System, and Antimicrobial Drugs (Welling and Tse, book reviews), 829

Carnauba wax microspheres
5-Fluorouracil:Carnauba Wax Microspheres for Chemoembolization: An In Vitro Evaluation, 847

Carvedilol
Liquid Chromatographic Assay and Disposition of Carvedilol in Healthy Volunteers, 1195

Catecholamines
A Potentiometric Study of Lithium Complexation with Catecholamines, 73

Ceftizoxime
Dosage Regimen Design for Pharmaceutical Studies Conducted in Animals, 852

Cellulose acetate phthalate
Some Factors Affecting the Microencapsulation of Pharmaceuticals with Cellulose Acetate Phthalate, 573

Cetiedil
Molecular Properties of Cetiedil and its Interactions with Erythrocyte Membranes, 654

Chemoembolization
Formation and Characterization of Cisplatin Loaded Poly(*d,l*-Lactide) Microspheres for Chemoembolization, 750
5-Fluorouracil:Carnauba Wax Microspheres for Chemoembolization: An In Vitro Evaluation, 847

Chemotherapy
Antibiotics and Chemotherapy: Pharmacokinetics of Sulfonamides Revisited, vol. 34 (Vree and Hekster, book reviews), 103

Chenodiol
Determination of Chenodiol Bioequivalence Using an Immobilized Multi-enzyme Bioluminescence Technique, 288

Chloramphenicol palmitate
Surface Electric Charge of the Active and Inactive Polymorphs of Chloramphenicol Palmitate, 187
Effect of Seed Crystals on Solid-State Transformation of Polymorphs of Chloramphenicol Palmitate During Grindling[1], 506

Chlorhexidine
Analysis of Chlorhexidine Sorption in Soft Contact Lenses by Catalytic Oxidation of [^{14}C]Chlorhexidine and by Liquid Chromatography, 83

Chloride salts
Automated Flow-Injection Mercurothiocyanate Determination of Chloride Salts of Drugs for Routine Assays: Content Uniformity and Dissolution Studies, 800

Chlorimipramine
^{13}C NMR Studies of the Molecular Flexibility of Antidepressants, 133

Chloroquine
In Vitro Binding of Chloroquine to Rat Muscle Preparations, 1068

Chlorpromazine
Inhibition of Binedaline Binding to Human α_1-Acid Glycoprotein and Other Serum Proteins by Chlorpromazine, Imipramine, and Propranolol, 883

Chromium-51 ethylenediaminetetraacetate
Target Organ Directed Drug Delivery: Evaluation of Renal Infusion of Chromium-51 Ethylenediaminetetraacetate and Sodium *o*-[^{125}I]Iodohippurate in the Wistar Kyoto Rat, 1137

α-Chymotrypsin
The Effect of Enzymatic Reaction on Dissolution Rate: Theoretical Analysis and Experimental Test, 195

Cibenzoline
Relative and Absolute Bioavailability of Cibenzoline Capsules and Tablets in Healthy Subjects, 894

Cilastatin sodium
Compressed Pellet X-ray Diffraction Monitoring for Optimization of Crystallinity in Lyophilized Solids: Imipenem:Cilastatin Sodium Case, 805

Cimetidine
Inhibition of Pentoxifylline Clearance by Cimetidine, 155

Cimetropium bromide
Discontinuous Oral Absorption of Cimetropium Bromide, a New Antispasmodic Drug, 680

Cinnamyl anthranilate
Methods for In Vitro Percutaneous Absorption Studies VI: Preparation of the Barrier Layer, 487

Cinnarizine
Enhancement of Bioavailability of Cinnarizine from Its β-Cyclodextrin Complex on Oral Administration with DL-Phenylalanine as a Competing Agent, 391

Cisplatin
Transport of Cisplatin in Rat Brain Following Microinfusion: an Analysis, 120
Formation and Characterization of Cisplatin Loaded Poly(*d*,*l*-Lactide) Microspheres for Chemoembolization, 750
Noninvasive Estimation of Bound and Mobile Platinum Compounds in the Kidney Using a Radiopharmacokinetic Model, 873

Clastic binding
Molecular Orbital Calculations of Proton Transfer Involving Amines as Models for the Clastic Binding of Opiates with Their Receptor, 769

Clearance
Comparison of Harmonic Mean versus Arithmetic Mean Clearance Values, 427

Cliquinol
Thermodynamic Proton–Ligand and Metal–Ligand Stability Constants of Some Drugs, 190

Clofibrate
Thermodynamic Proton–Ligand and Metal–Ligand Stability Constants of Some Drugs, 190

Closed loop method
Comparison of Four Experimental Techniques for Studying Drug Absorption Kinetics in the Anesthetized Rat In Situ, 117

CNS
Pharmacokinetics of Cardiovascular, Central Nervous System, and Antimicrobial Drugs (Welling and Tse, book reviews), 829

Cocaine
The Substance Abuse Problems, vol. 2_New Issues for the 1980s (Cohen, book reviews), 825

Codeine
Enhanced Stability of Codeine Sulfate: Effect of pH, Buffer, and Temperature on the Degradation of Codeine in Aqueous Solution, 901

Codeine phosphate
Enhanced Stability of Codeine Sulfate: Effect of pH, Buffer, and Temperature on the Degradation of Codeine in Aqueous Solution, 901

Codeine sulfate
Enhanced Stability of Codeine Sulfate: Effect of pH, Buffer, and Temperature on the Degradation of Codeine in Aqueous Solution, 901

Colloidal drug carrier systems
Effect of a Selected Suppression of the Reticuloendothelial System on the Distribution of Model Carrier Particles, 16

Colonic absorption
Contribution of Calcium Ion Sequestration by Polyoxyethylated Nonionic Surfactants to the Enhanced Colonic Absorption of *p*-Aminobenzoic Acid, 387

Competing agent
Enhancement of Bioavailability of Cinnarizine from Its β-Cyclodextrin Complex on Oral Administration with DL-Phenylalanine as a Competing Agent, 391

Complex formation
Water Soluble Complexes of the Antiviral Drugs, 9-[(1,3-Dihydroxy-2-propoxy)methyl]guanine and Acyclovir: The Role of Hydrophobicity in Complex Formation, 648

Computer-graphics analysis
Gabexate Mesylate Inhibition of Serine Proteases: Thermodynamic and Computer-Graphics Analysis, 1171

Conformation
Conformation of Nefopam Hydrochloride, a Novel Analgesic, 772

Contact angles
Use of the Washburn–Rideal Equation for Studying Capillary Flow in Porous Media, 719

Contaminants
Contaminants Leached from Rubber Stoppers into a Water Soluble Vitamin E Intravenous Injection Product, 724

Contrast enhancing agents
Human Erythrocyte Membrane Permeability and Nitroxyl Spin-Label Reduction, 334

Convection–dispersion modeling
Convection–Dispersion Modeling of Hepatic Elimination, 321

Convective diffusion model
Dissolution of Acidic and Basic Compounds from the Rotating Disk: Influence of Convective Diffusion and Reaction, 858

Coomassie blue
Mechanism Studies of Coomassie Blue and Silver Staining of Proteins, 907

Corneal membrane permeability
Pilocarpine Prodrugs I. Synthesis, Physicochemical Properties and Kinetics of Lactonization of Pilocarpic Acid Esters, 36
Effect of Particle Dissolution Rate on Ocular Drug Bioavailability, 280
Pilocarpine Prodrugs II. Synthesis, Stability, Bioconversion, and Physicochemical Properties of Sequentially Labile Pilocarpine Acid Diesters, 775

Corticosteroid esters
Oral Absorption of 21-Corticosteroid Esters: A Function of Aqueous Stability and Intestinal Enzyme Activity and Distribution, 934

Crystallization kinetics
Crystallization Kinetics of Oxalic Acid Dihydrate: Nonisothermal Desupersaturation of Solutions, 552
Evaluation of Growth Rate Constants of Oxalic Acid Dihydrate at Constant Supersaturation, 559

CSF
Transport of Cisplatin in Rat Brain Following Microinfusion: an Analysis, 120
Effect of Acetaminophen on Inorganic Sulfate Concentrations in Human Cerebrospinal Fluid, 722

Cyanoacrylate nanocapsules
Physicochemical and Morphological Characterization of Polyisobutyl Cyanoacrylate Nanocapsules, 361

Cyanoacrylate nanoparticles
Distribution of Polyhexyl Cyanoacrylate Nanoparticles in Nude Mice Bearing Human Osteosarcoma, 256
Physicochemical and Morphological Characterization of Polyisobutyl Cyanoacrylate Nanocapsules, 361
Disposition Kinetics and Oral Bioavailability of Vincamine-Loaded Polyalkyl Cyanoacrylate Nanoparticles, 955

β-Cyclodextrin
Hydrophilic Cyclodextrin Derivatives Enable Effective Oral Administration of Steroidal Hormones, 165
Enhancement of Bioavailability of Cinnarizine from Its β-Cyclodextrin Complex on Oral Administration with DL-Phenylalanine as a Competing Agent, 391
Hydroxypropyl-β-Cyclodextrin Derivatives: Influence of Average Degree of Substitution on Complexing Ability and Surface Activity, 571

Cyclodextrin derivatives
Hydrophilic Cyclodextrin Derivatives Enable Effective Oral Administration of Steroidal Hormones, 165
Hydroxypropyl-β-Cyclodextrin Derivatives: Influence of Average Degree of Substitution on Complexing Ability and Surface Activity, 571

Cyclosporine
Absorption of Cyclosporine from Rabbit Small Intestine In Situ, 1151

Cysteine
S-Acylation of Cysteine by *O*-Acetylsalicylic Anhydride: A Possible Mechanism for Aspirin Hypersensitivity?, 1081

Cytochrome P-450
Effect of the Immunomodulator Tilorone on Antipyrine Disposition in the Rat, 946

Cytotoxic activity
Synthesis and In Vitro Cytotoxic Activity of Semisynthetic Derivatives in the Santonin Series, 784

Dapsone
Sustained-Release Delivery Systems, I: Phase Diagram Studies of Dapsone and Selected Derivatives, 53
Sustained-Release Delivery Systems, II: In Vitro Dissolution of 4,4′-Sulfonylbisbenzamine (Dapsone)—*N*-Dodecanoyl-4,4′-sulfonylbisbenzamine Comelts, 264

Sustained-Release Delivery Systems, I: Phase Diagram Studies of Dapsone and Selected Derivatives correction, 1207

Deconvolution analysis
Exponential Intravenous Infusions in Toxicological Studies: Achieving Identical Serum Drug Concentration Profiles in Individuals with Altered Pharmacokinetic States, 448

Degradation
Kinetics and Mechanism of the Solid-State Decomposition of Propantheline Bromide, 92
Stability of Aspirin in Solid Mixtures, 97
Hydrolysis of Nicotinyl 6-Aminonicotinate, 204
Degradation Kinetics and Mechanism of N^6-[(Dimethylamino)methylene]mitomycin C in Aqueous Solutions, 208
V;t Tric yclo[4.2.2.$0^{2,5}$]dec-9-ene-3,4,7,8-tetracarboxylic Acid Diimide: Formulation and Stability Studies, 301
Nonlinear Estimation of Kinetic Parameters for Solid-State Hydrolysis of Water-Soluble Drugs, 459
Interactions in the Solid State II: Interaction of Sodium Bicarbonate with Substituted Benzoic Acids in the Presence of Moisture, 546
Degradation Pathway of Pralidoxime Chloride in Concentrated Acidic Solution, 608
Liquid Chromatographic Assays for Barbiturate Injections, 714
Stability Studies of Bis(Pyridiniumaldoxime) Reactivators of Organophosphate-Inhibited Acetylcholinesterase, 797
Reactivity of Enprostil Stereoisomers in Soft Elastic Gelatin Capsules, 842
Enhanced Stability of Codeine Sulfate: Effect of pH, Buffer, and Temperature on the Degradation of Codeine in Aqueous Solution, 901
Kinetics and Mechanism of the Solid-State Decomposition of Propantheline Bromide correction, 1207
Nonlinear Estimation of Kinetic Parameters for Solid-State Hydrolysis of Water-Soluble Drugs correction, 1208
Liquid Chromatographic Assays for Barbiturate Injections correction, 1208

Dehydropipernonaline
Dehydropipernonaline, an Amide Possessing Coronary Vasodilating Activity, Isolated from *Piper longum* L., 1188

11-Deoxy-11α,12α-methanoprostaglandin E_2
11-Deoxy-11α, 12α-methanoprostaglandin E_2, a Potent, Short-Acting Bronchodilator[1], 307

Desimipramine
^{13}C NMR Studies of the Molecular Flexibility of Antidepressants, 133

Desipramine
Interaction Between Antidepressants and Alpha$_1$-Adrenergic Receptor Antagonists on the Binding to Alpha$_1$-Acid Glycoprotein, 146

Desmopressin
Intranasal Administration of Peptides: Nasal Deposition, Biological Response, and Absorption of Desmopressin, 1085

Dexamethasone
Glucocorticoids: Binding Affinity and Lipophilicity, 973

Dextran sulfate 500
Effect of a Selected Suppression of the Reticuloendothelial System on the Distribution of Model Carrier Particles, 16

4-(2-di-*N*,*N*-propylaminoethyl)-2-(3*H*)-indolone
Liquid Chromatographic Determination of 4-(2-Di-*N*,*N*-propylaminoethyl)-2-(3*H*)-Indolone in Rat, Dog, and Human Plasma with Ultraviolet Detection, 90

Diazepam
Effects of Combined Administration of Diazepam and Imipramine Hydrochloride in Rats, 1071

Dichloroethane
Cytotoxic Effects of 1,2-Dichloroethane, Nitrobenzene, and Carbon Disulfide on Human KB and Monkey AGMK Cells, 1190

Dicumarol
Studies on Drug–Milk Freeze-Dried Formulations I: Bioavailability of Sulfamethizole and Dicumarol Formulations, 692

Diffusion
A Simulation Study on the Effect of a Uniform Diffusional Barrier Across Hepatocytes on Drug Metabolism by Evenly or Unevenly Distributed Uni-enzyme in the Liver, 3
Modeling and Numerical Computation of Drug Transport in Laminates: Model Case Evaluation of Transdermal Delivery System, 9
Evaluation of a Tube Method for Determining Diffusion Coefficients for Sparingly Soluble Drugs, 65
The Effect of Enzymatic Reaction on Dissolution Rate: Theoretical Analysis and Experimental Test, 195
Physicochemical Study of Percutaneous Absorption Enhancement by Dimethyl Sulfoxide: Kinetic and Thermodynamic Determinants of Dimethyl Sulfoxide Mediated Mass Transfer of Alkanols, 479
Dissolution of Theophylline Monohydrate and Anhydrous Theophylline in Buffer Solutions, 497
Interactions in the Solid State II: Interaction of Sodium Bicarbonate with Substituted Benzoic Acids in the Presence of Moisture, 546
Kinetics of Sorption of Ionizable Solutes by Plastic Infusion Bags, 562
Time- or Position-Dependent Diffusivity as a Mechanism for Regulating Drug Release From Slab Matrix Systems: Theoretical Models, 717
Comparison Between the Iontophoretic and Passive Transport of Thyrotropin Releasing Hormone Across Excised Nude Mouse Skin, 738
The Effect of Vehicle on the Diffusion of Salicylic Acid Through Hairless Mouse Skin, 744
Dissolution of Acidic and Basic Compounds from the Rotating Disk: Influence of Convective Diffusion and Reaction, 858
Solute Transport Resistance at Water–Oil Interfaces, 1157

Diffusion coefficients
Evaluation of a Tube Method for Determining Diffusion Coefficients for Sparingly Soluble Drugs, 65

Diffusional barrier
A Simulation Study on the Effect of a Uniform Diffusional Barrier Across Hepatocytes on Drug Metabolism by Evenly or Unevenly Distributed Uni-enzyme in the Liver, 3

Digoxin
Mixing-Tank Model for Predicting Dissolution Rate Control of Oral Absorption, 109
Comparative In Vivo Evaluation of a Radioimmunoassay and a Chromatographic Assay for the Measurement of Digoxin in Biological Fluids, 517

Dihydrobenzazepine derivatives
Hypolipidemic Activity of 6-Substituted 6,7-Dihydro-5*H*-dibenz[*c*,*e*]azepine and the Effects of 6,7-Dihydro-5*H*-dibenz[c,e]azepine on Lipid Metabolism of Rodents, 622

Dihydropyridine ⇄ pyridinium redox carrier system
Improved Delivery Through Biological Membranes XX[1]: Nicotinamide ⇄ Dihydronicotinamide Based Ester-Linked Redox Carrier Systems, 29

9-[(1,3-Dihydroxy-2-propoxy)methyl]guanine
Water Soluble Complexes of the Antiviral Drugs, 9-[(1,3-Dihydroxy-2-propoxy)methyl]guanine and Acyclovir: The Role of Hydrophobicity in Complex Formation, 648

3,7-Dimethoxy-4-phenyl-*N*-1*H*-tetrazol-5-yl-4*H*-furo[3,2-*b*]indole-2-carboxamide
Robotic Analysis of 3,7-Dimethoxy-4-phenyl-*N*-1*H*-tetrazol-5-yl-4*H*-furo[3,2-*b*]indole-2-carboxamide in Human Plasma, 1003

Diphenhydramine
Placental Transfer of Diphenhydramine in Chronically Instrumented Pregnant Sheep, 685

Disinfection
Dynamics of Disinfection of Selected Preservatives Against *Escherichia coli* correction, 1207

Disposition
Absorption and Disposition of Aluminum in the Rat, 586
Probenecid Disposition by Parallel Michaelis–Menten and Dose-Dependent Pseudo-First-Order Processes, 664
Placental Transfer of Diphenhydramine in Chronically Instrumented Pregnant Sheep, 685
Extrahepatic Metabolism and Distribution of Aspirin in Vascular Beds of Sheep, 731
Drug Fate and Metabolism: Methods and Techniques, vol. 5 (Garrett and Hirtz, book reviews), 824
Evaluation of Drug Absorption and Presystemic Metabolism Using an In Situ Intestinal Preparation, 869

Dissociation constants
Effects of Solvent Polarity on the Acid Dissociation Constants of Benzoic Acids, 182

Dissolution
Dissolution and Partition Thermodynamic Functions of Some Nonsteroidal Anti-inflammatory Drugs, 23
Mixing-Tank Model for Predicting Dissolution Rate Control of Oral Absorption, 109
The Effect of Enzymatic Reaction on Dissolution Rate: Theoretical Analysis and Experimental Test, 195
A Novel Column/Buffer Combination for Chromatographic Analysis of Basic Drugs in Simulated Gastrointestinal Fluids, 211
Effect of Particle Dissolution Rate on Ocular Drug Bioavailability, 280
Dissolution of Theophylline Monohydrate and Anhydrous Theophylline in Buffer Solutions, 497
Drug–Excipient Interactions Resulting from Powder Mixing III: Solid State Properties and Their Effect on Drug Dissolution, 534
Drug–Excipient Interactions Resulting from Powder Mixing IV* Role of Lubricants and Their Effect on In Vitro Dissolution, 542
Preparation, Characterization, and Controlled Release from Coprecipitates of Fluorescein and Magnesium Hydroxide, 756
Dissolution Profiles in Column Dissolution, 764
Dissolution of Acidic and Basic Compounds from the Rotating Disk: Influence of Convective Diffusion and Reaction, 858
Computerized Model for Evaluating the Kinetics of In Vitro Release of Valpromide from Controlled-Release Tablets Under Nonsink Conditions, 959
Multidimensional Column-switching Liquid Chromatographic Method for Dissolution Testing of Enprostil Soft Elastic Gelatin Capsules, 999
Determination of the Dissolution Rate Controlling Process for Isomeric Amides in Alkane Solvents, 1104
Comparison of Ultraviolet and Liquid Chromatographic Methods for Dissolution Testing of Sodium Phenytoin Capsules, 1113

Distributed model
Transport of Cisplatin in Rat Brain Following Microinfusion: an Analysis, 120

Distribution
Distribution of Polyhexyl Cyanoacrylate Nanoparticles in Nude Mice Bearing Human Osteosarcoma, 256

Distribution kinetics
Single Pass Mean Residence Time in Peripheral Tissues: A Distribution Parameter Intrinsic to the Tissue Affinity of a Drug, 1119

Diuretic agents
Liquid Chromatographic Determination of Guanethidine Salts and Hydrochlorothiazide Using Electrochemical Detection and Ion-Pair Techniques, 413

***N*-Dodecanoyl-4,4′-sulfonylbisbenzamine**
Sustained-Release Delivery Systems, I: Phase Diagram Studies of Dapsone and Selected Derivatives, 53
Sustained-Release Delivery Systems, II: In Vitro Dissolution of 4,4′-Sulfonylbisbenzamine (Dapsone)—*N*-Dodecanoyl-4,4′-sulfonylbisbenzamine Comelts, 264
Sustained-Release Delivery Systems, I: Phase Diagram Studies of Dapsone and Selected Derivatives correction, 1207

Dopamine-2 Agonists
Pharmacokinetics of Dopamine-2 Agonists in Rats and Dogs, 925
Functional Group Metabolism of Dopamine-2 Agonists: Conversion of 4-(2-Di-*n*-propylaminoethyl)-2-(3*H*)-indolone to 4-(2-Di-*n*-propylaminoethyl)-7-hydroxy-2-(3*H*)-indolone, 929

Dothiepin
Pharmacokinetics of Dothiepin in Humans: A Single Dose Dose–Proportionality Study, 582

Doxazosin
Interaction Between Antidepressants and Alpha$_1$-Adrenergic Receptor Antagonists on the Binding to Alpha$_1$-Acid Glycoprotein, 146

Doxepin
Interaction Between Antidepressants and Alpha$_1$-Adrenergic Receptor Antagonists on the Binding to Alpha$_1$-Acid Glycoprotein, 146

Doxorubicin
Analysis of Doxorubicin, 4′-Epidoxorubicin, and Their Metabolites by Liquid Chromatography, 1201

Drug action
A Primer of Drug Action, 4th ed. (Julien, book reviews), 430

Drug delivery systems
Modeling and Numerical Computation of Drug Transport in Laminates: Model Case Evaluation of Transdermal Delivery System, 9
Effect of a Selected Suppression of the Reticuloendothelial System on the Distribution of Model Carrier Particles, 16
Improved Delivery Through Biological Membranes XX[1]: Nicotinamide · Dihydronicotinamide Based Ester-Linked Redox Carrier Systems, 29
Pilocarpine Prodrugs I. Synthesis, Physicochemical Properties and Kinetics of Lactonization of Pilocarpic Acid Esters, 36
Intranasal Delivery of Nicardipine in the Rat, 44
Sustained-Release Delivery Systems, I: Phase Diagram Studies of Dapsone and Selected Derivatives, 53
Sustained Release of Nifedipine from Granules, 57
Introduction to Pharmaceutical Dosage Forms (Ansel, book reviews), 103
Respiratory Pharmacology and Toxicology (Hollinger, book reviews), 108
Transport of Cisplatin in Rat Brain Following Microinfusion: an Analysis, 120
Hydrophilic Cyclodextrin Derivatives Enable Effective Oral Administration of Steroidal Hormones, 165
An Isolated Perfused Rat Lung Preparation for the Study of Aerosolized Drug Deposition and Absorption, 168
Distribution of Polyhexyl Cyanoacrylate Nanoparticles in Nude Mice Bearing Human Osteosarcoma, 256
Sustained-Release Delivery Systems, II: In Vitro Dissolution of 4,4′-Sulfonylbisbenzamine (Dapsone)—*N*-Dodecanoyl-4,4′-sulfonylbisbenzamine Comelts, 264
Spiromustine Analogues. Relationships Between Structure, Plasma Stability, and Antitumor Activity, 313
Transnasal Systemic Medications: Fundamentals, Developmental Concepts and Biomedical Assessments (Chien, book reviews), 323
Proliposomes: A Novel Solution to an Old Problem, 325
Characterization of Proliposomes, 330
Prolonged Controlled-Release of Nafarelin, a Luteinizing Hormone-Releasing Hormone Analogue, From Biodegradable Polymeric Implants: Influence of Composition and Molecular Weight of Polymer, 356
Physicochemical and Morphological Characterization of Polyisobutyl Cyanoacrylate Nanocapsules, 361
Drug Release Studies on an Oil–Water Emulsion Based on a Eutectic Mixture of Lidocaine and Prilocaine as the Dispersed Phase, 365
Pharmacodynamic Measurement of Percutaneous Penetration Enhancement In Vivo, 374
Enhancement of Bioavailability of Cinnarizine from Its β-Cyclodextrin Complex on Oral Administration with DL-Phenylalanine as a Competing Agent, 391
Prediction of Drug Residence Times in Regions of the Human Respiratory Tract Following Aerosol Inhalation, 433
Prodrugs of 5-Fluorouracil V. 1-Alkoxycarbonyl Derivatives as Potential Prodrug Forms for Improved Rectal or Oral Delivery of 5-Fluorouracil, 522
Polymerized Phospholipid Vesicles Containing Amphotericin B: Evaluation of Toxic and Antifungal Activities In Vitro, 579
Intestinal Absorption of 5-Fluorouracil and Its Alkylcarbamoyl Derivatives in the Rat Small Intestine, 676
Relative Bioavailability of a New Transdermal Nitroglycerin Delivery System, 688
Biodegradable Microspheres III: Some Immunological Properties of Polyacryl Starch Microparticles, 697
Time- or Position-Dependent Diffusivity as a Mechanism for Regulating Drug Release From Slab Matrix Systems: Theoretical Models, 717
Percutaneous Absorption: Mechanisms Methodology Drug Delivery (Bronaugh, Maibach, book reviews), 726
Directed Drug Delivery: A Multidisciplinary Approach (Borchardt, Repta, and Stella, book reviews), 727
Comparison Between the Iontophoretic and Passive Transport of Thyrotropin Releasing Hormone Across Excised Nude Mouse Skin, 738
Formation and Characterization of Cisplatin Loaded Poly(*d,l*-Lactide) Microspheres for Chemoembolization, 750
Preparation, Characterization, and Controlled Release from Coprecipitates of Fluorescein and Magnesium Hydroxide, 756
Pilocarpine Prodrugs II. Synthesis, Stability, Bioconversion, and Physicochemical Properties of Sequentially Labile Pilocarpine Acid Diesters, 775
Trapping of Chemical Carcinogens with Magnetic Polyethyleneimine Microcapsules: I. Microcapsule Preparation and In Vitro Reactivity of Encapsulated Nucleophiles, 831

Determination of Total and Encapsulated Insulin in a Vesicle Formulation, 838
5-Fluorouracil:Carnauba Wax Microspheres for Chemoembolization: An In Vitro Evaluation, 847
Disposition Kinetics and Oral Bioavailability of Vincamine-Loaded Polyalkyl Cyanoacrylate Nanoparticles, 955
Biodegradable Microspheres IV: Factors Affecting the Distribution and Degradation of Polyacryl Starch Microparticles, 962
Intranasal Administration of Peptides: Nasal Deposition, Biological Response, and Absorption of Desmopressin, 1085
Dermal Penetration Enhancement Profile of Hexamethylenelauramide and Its Homologues: In Vitro Versus In Vivo Behavior of Enhancers in the Penetration of Hydrocortisone, 1089
Target Organ Directed Drug Delivery: Evaluation of Renal Infusion of Chromium-51 Ethylenediaminetetraacetate and Sodium *o*-[^{125}I]Iodohippurate in the Wistar Kyoto Rat, 1137
Characterization of Liposomes and an Emulsion Containing Mitomycin C or Lipophilic Mitomycin C Prodrugs, 1166
Influence of a High Fat Breakfast on the Bioavailability of Theophylline Controlled-Release Formulations: An In Vitro Demonstration of an In Vivo Observation, 1205
Sustained-Release Delivery Systems, I: Phase Diagram Studies of Dapsone and Selected Derivatives correction, 1207
Prediction of Drug Residence Times in Regions of the Human Respiratory Tract Following Aerosol Inhalation correction, 1207

Drug development
The Development of a Medicine (Smith, book reviews), 430

Drug–excipient interactions
Drug–Excipient Interactions Resulting from Powder Mixing III: Solid State Properties and Their Effect on Drug Dissolution, 534
Drug–Excipient Interactions Resulting from Powder Mixing IV* Role of Lubricants and Their Effect on In Vitro Dissolution, 542

Drug–milk formulation
Studies on Freeze-Dried Drug–Milk Formulations II: Effect of Regenerated Fluid Volume on Nitrofurantoin Bioavailability, 1145

Drug research
Advances in Drug Research, vol. 14 (Testa, book reviews), 822

Drug targeting
Drug Targeting (Buri and Gumma, book reviews), 728

Drug transport
Modeling and Numerical Computation of Drug Transport in Laminates: Model Case Evaluation of Transdermal Delivery System, 9

Editorials
The Responsibilities of Authors, 1
A Thank You, 221
Time in Review, 1017
A Fond Farewell, 1117

Electrostatic properties
Surface Electric Charge of the Active and Inactive Polymorphs of Chloramphenicol Palmitate, 187

Emulsion technology
Encyclopedia of Emulsion Technology, Volume 2: Applications (Becker, book reviews), 726

Enalaprilat
Radioimmunoassay for the Quantitation of Lisinopril and Enalaprilat, 512

Encapsulation
Water Migration from Soft Gelatin Capsule Shell to Fill Material and Its Effect on Drug Solubility, 62
Peptide–Carrier Interaction: Induction of Liposome Fusion and Aggregation by Insulin, 259
Formation and Characterization of Cisplatin Loaded Poly(*d,l*-Lactide) Microspheres for Chemoembolization, 750
Trapping of Chemical Carcinogens with Magnetic Polyethyleneimine Microcapsules: I. Microcapsule Preparation and In Vitro Reactivity of Encapsulated Nucleophiles, 831
Determination of Total and Encapsulated Insulin in a Vesicle Formulation, 838
Water Migration from Soft Gelatin Capsule Shell to Fill Material and Its Effect on Drug Solubility correction, 1208

Endotoxins
Pyrogens: Endotoxins, LAL Testing, and Depyrogenation (Pearson, book reviews), 822

Enprostil
Reactivity of Enprostil Stereoisomers in Soft Elastic Gelatin Capsules, 842
Multidimensional Column-switching Liquid Chromatographic Method for Dissolution Testing of Enprostil Soft Elastic Gelatin Capsules, 999

Enterohepatic recycling
Biliary Excretion and Enterohepatic Cycling of Glycyrrhizin in Rats, 672

Entropy of fusion
Dissolution and Partition Thermodynamic Functions of Some Nonsteroidal Anti-inflammatory Drugs, 23

Environmental pathology
Environmental Pathology (Mottet, book reviews), 106

Enzymatic reactions
The Effect of Enzymatic Reaction on Dissolution Rate: Theoretical Analysis and Experimental Test, 195

Enzyme chemistry
Enzyme Chemistry: Impact and Applications (Suckling, book reviews), 220

Epidoxorubicin
Analysis of Doxorubicin, 4′-Epidoxorubicin, and Their Metabolites by Liquid Chromatography, 1201

(−)-Epinephrine
In Vivo Hyperglycemic Effect of (−)- and (+)-Epinephrine in Dogs, 78
In Vivo Hyperglycemic Effect of (−)- and (+)-Epinephrine in Dogs, 78

Equilibrium dialysis
Interaction Between Antidepressants and Alpha$_1$-Adrenergic Receptor Antagonists on the Binding to Alpha$_1$-Acid Glycoprotein, 146
6α-Methylprednisolone and 6α-Methylprednisone Plasma Protein Binding in Humans and Rabbits, 760

Erythrocyte membranes
Human Erythrocyte Membrane Permeability and Nitroxyl Spin-Label Reduction, 334
Molecular Properties of Cetiedil and its Interactions with Erythrocyte Membranes, 654

Escherichia coli
2,3,5-Triphenyltetrazolium Chloride as a Novel Tool in Germicide Dynamics, 912

Estradiol
Hydrophilic Cyclodextrin Derivatives Enable Effective Oral Administration of Steroidal Hormones, 165

Etoposide
High-Performance Liquid Chromatographic Assay for Etoposide in Human Plasma, 815

Eutectic mixture of lidocaine and prilocaine
Drug Release Studies on an Oil–Water Emulsion Based on a Eutectic Mixture of Lidocaine and Prilocaine as the Dispersed Phase, 365

***Evodia rutaecarpa*, Cardiotonic activity**
Isolation of Evodiamine, a Powerful Cardiotonic Principle, from *Evodia rutaecarpa* Bentham (Rutaceae), 612

Evodiamine
Isolation of Evodiamine, a Powerful Cardiotonic Principle, from *Evodia rutaecarpa* Bentham (Rutaceae), 612

Exponential infusions
Exponential Intravenous Infusions in Toxicological Studies: Achieving Identical Serum Drug Concentration Profiles in Individuals with Altered Pharmacokinetic States, 448

Extended simultaneous chemical reaction and dissolution concept
Dissolution of Theophylline Monohydrate and Anhydrous Theophylline in Buffer Solutions, 497

Fibrin formation
In Vitro Bioactivity of a Synthesized Prostaglandin E$_1$–Heparin Conjugate, 172

Flestolol
Quantitation of the Ultra Short Acting β-Adrenergic Antagonist Flestolol in Blood by Liquid Chromatography, 424

Fluorescein
An Isolated Perfused Rat Lung Preparation for the Study of Aerosolized Drug Deposition and Absorption, 168
Preparation, Characterization, and Controlled Release from Coprecipitates of Fluorescein and Magnesium Hydroxide, 756

Fluorometholone
Effect of Particle Dissolution Rate on Ocular Drug Bioavailability, 280

5-Fluorouracil
Prodrugs of 5-Fluorouracil V. 1-Alkoxycarbonyl Derivatives as Potential Prodrug Forms for Improved Rectal or Oral Delivery of 5-Fluorouracil, 522
Intestinal Absorption of 5-Fluorouracil and Its Alkylcarbamoyl Derivatives in the Rat Small Intestine, 676
5-Fluorouracil:Carnauba Wax Microspheres for Chemoembolization: An In Vitro Evaluation, 847

Folic acid
Liquid Chromatographic Determination of Folic Acid in Multivitamin Preparations, 1192

Formamide
The Effect of Vehicle on the Diffusion of Salicylic Acid Through Hairless Mouse Skin, 744

Free radicals
Free Radicals in Biology and Medicine (Halliwell and Gutteridge, book reviews), 105

Gabexate mesylate
Gabexate Mesylate Inhibition of Serine Proteases: Thermodynamic and Computer-Graphics Analysis, 1171

Ganglionic transmission
2,2′-Phthaloyl-, 2,2′-Isophthaloyl-, and 2,2′-Terephthaloylbis[1,1,1-trimethylhydrazinium] Dihydroxide, Bis(Inner Salts): Synthesis, Partition Coefficients, Toxicity and Effect on Ganglionic Transmission, 407

Gas chromatography–mass spectrometry
Stable-Isotope Methodology in the Bioavailability Study of 17α-Methyltestosterone using Gas Chromatography–Mass Spectrometry, 161
Relative Bioavailability of Metaproterenol in Humans Utilizing a Single Dose, Stable Isotope Approach, 886

Gas–solid chromatography
Determination of Partial Solubility Parameters of Lactose by Gas–Solid Chromatography, 68

Gastrointestinal pH
Comparison of Gastrointestinal pH in Dogs and Humans: Implications on the Use of the Beagle Dog as a Model for Oral Absorption in Humans, 271
Application of a Radiotelemetric System to Evaluate the Performance of Enteric Coated and Plain Aspirin Tablets, 469
Comparison of Gastrointestinal pH in Dogs and Humans: Implications on the Use of the Beagle Dog as a Model for Oral Absorption in Humans correction, 1207

GC–MS
Stable-Isotope Methodology in the Bioavailability Study of 17α-Methyltestosterone using Gas Chromatography–Mass Spectrometry, 161

Gelatin
Swelling Studies of Gelatin I: Gelatin Without Additives, 790
Swelling Studies of Gelatin I: Gelatin Without Additives correction, 1208

Gelatin capsules
Reactivity of Enprostil Stereoisomers in Soft Elastic Gelatin Capsules, 842
Multidimensional Column-switching Liquid Chromatographic Method for Dissolution Testing of Enprostil Soft Elastic Gelatin Capsules, 999

Gentamicin
Exponential Intravenous Infusions in Toxicological Studies: Achieving Identical Serum Drug Concentration Profiles in Individuals with Altered Pharmacokinetic States, 448

Germall II
2,3,5-Triphenyltetrazolium Chloride as a Novel Tool in Germicide Dynamics, 912

Germicide dynamics
2,3,5-Triphenyltetrazolium Chloride as a Novel Tool in Germicide Dynamics, 912

GI absorption
Pharmacology of Intestinal Permeation I and II (Csaky, book reviews), 104
Mixing-Tank Model for Predicting Dissolution Rate Control of Oral Absorption, 109
Comparison of Four Experimental Techniques for Studying Drug Absorption Kinetics in the Anesthetized Rat In Situ, 117
Surface Electric Charge of the Active and Inactive Polymorphs of Chloramphenicol Palmitate, 187
Comparison of Gastrointestinal pH in Dogs and Humans: Implications on the Use of the Beagle Dog as a Model for Oral Absorption in Humans, 271
Allopurinol Absorption from Different Sites of the Rat Gastrointestinal Tract, 275
Application of a Radiotelemetric System to Evaluate the Performance of Enteric Coated and Plain Aspirin Tablets, 469
Intestinal Absorption of 5-Fluorouracil and Its Alkylcarbamoyl Derivatives in the Rat Small Intestine, 676
Simultaneous First- and Zero-Order Absorption of Carbamazepine Tablets in Humans, 897
Oral Absorption of 21-Corticosteroid Esters: A Function of Aqueous Stability and Intestinal Enzyme Activity and Distribution, 934
Uptake of Prodrugs by Rat Intestinal Mucosal Cells: Mechanism and Pharmaceutical Implications, 940
Effects of Potential Damaging Agents on the Microclimate-pH in the Rat Jejunum, 1162
Comparison of Gastrointestinal pH in Dogs and Humans: Implications on the Use of the Beagle Dog as a Model for Oral Absorption in Humans correction, 1207

Global association function
Association and Transfer Functions for Analysis of Drug Binding to Proteins, 590

Glucocorticoids
Glucocorticoids: Binding Affinity and Lipophilicity, 973

Glyburide
Conformation of Glyburide in the Solid State and in Solution, 596

Glycol metabolites
Facile Synthesis of Glycol Metabolites of Phenethylamine Drugs, 619

Glycyrrhizin
Biliary Excretion and Enterohepatic Cycling of Glycyrrhizin in Rats, 672

Griseofulvin
Mixing-Tank Model for Predicting Dissolution Rate Control of Oral Absorption, 109

Guanabenz
Effect of Polyethylene Glycol 400 on the Penetration of Drugs Through Human Cadaver Skin In Vitro, 26

Guanethidine
Liquid Chromatographic Determination of Guanethidine Salts and Hydrochlorothiazide Using Electrochemical Detection and Ion-Pair Techniques, 413

Hairless mouse skin
Evaluation of Penetration Enhancement of Lidocaine by Nonionic Surfactants Through Hairless Mouse Skin In Vitro, 176
Physicochemical Study of Percutaneous Absorption Enhancement by Dimethyl Sulfoxide: Kinetic and Thermodynamic Determinants of Dimethyl Sulfoxide Mediated Mass Transfer of Alkanols, 479

Harmonic mean
Comparison of Harmonic Mean versus Arithmetic Mean Clearance Values, 427

Heidelberg capsule
Comparison of Gastrointestinal pH in Dogs and Humans: Implications on the Use of the Beagle Dog as a Model for Oral Absorption in Humans, 271
Application of a Radiotelemetric System to Evaluate the Performance of Enteric Coated and Plain Aspirin Tablets, 469
Comparison of Gastrointestinal pH in Dogs and Humans: Implications on the Use of the Beagle Dog as a Model for Oral Absorption in Humans correction, 1207

Hepatic elimination
A Simulation Study on the Effect of a Uniform Diffusional Barrier Across Hepatocytes on Drug Metabolism by Evenly or Unevenly Distributed Uni-enzyme in the Liver, 3

The Hepatic Sinusoid is Not Well-Stirred: Estimation of the Degree of Axial Mixing by Analysis of Lobular Concentration Gradients Formed During Uptake of Thyroxine by the Perfused Rat Liver, 233
Apparent Dose Dependency of the Hepatic (*S*)-Acenocoumarol Clearance in the Rat: a Study using Open Liver Biopsies, 238
Convection–Dispersion Modeling of Hepatic Elimination, 321
Hepatic Binding and Michaelis–Menten Metabolism of Drugs, 660

Hepatic tissue binding
Hepatic Binding and Michaelis–Menten Metabolism of Drugs, 660

Hepatic uptake
Apparent Dose Dependency of the Hepatic (*S*)-Acenocoumarol Clearance in the Rat: a Study using Open Liver Biopsies, 238

Heterocyclic chemistry
Heterocyclic Chemistry, vol. 4, A Specialist Periodical Report of the Royal Society of Chemistry (Suschitzky and Meth-Cohn, book reviews), 823

Hexamethylenelauramide
Dermal Penetration Enhancement Profile of Hexamethylenelauramide and Its Homologues: In Vitro Versus In Vivo Behavior of Enhancers in the Penetration of Hydrocortisone, 1089

Hexyl nicotinate
Pharmacodynamic Measurement of Percutaneous Penetration Enhancement In Vivo, 374

Histamine
In Vitro Inhibition of Histamine Metabolism in Guinea Pig Lung by *S*-(−)-Nicotine, 949

Histamine H_1 receptor blockers
Placental Transfer of Diphenhydramine in Chronically Instrumented Pregnant Sheep, 685

Human cadaver skin
Effect of Polyethylene Glycol 400 on the Penetration of Drugs Through Human Cadaver Skin In Vitro, 26

Human osteogenic sarcoma
Distribution of Polyhexyl Cyanoacrylate Nanoparticles in Nude Mice Bearing Human Osteosarcoma, 256

Hydrabenzene
Determination of Azobenzene and Hydrabenzene in Phenylbutazone and Sulfinpyrazone Products by High Performance Liquid Chromatography correction, 1207

Hydrazinium inner salts
2,2′-Phthaloyl-, 2,2′-Isophthaloyl-, and 2,2′-Terephthaloylbis[1,1,1-trimethylhydrazinium] Dihydroxide, Bis(Inner Salts): Synthesis, Partition Coefficients, Toxicity and Effect on Ganglionic Transmission, 407

Hydrochlorothiazide
Liquid Chromatographic Determination of Guanethidine Salts and Hydrochlorothiazide Using Electrochemical Detection and Ion-Pair Techniques, 413

Hydrocortisone
Oral Absorption of 21-Corticosteroid Esters: A Function of Aqueous Stability and Intestinal Enzyme Activity and Distribution, 934
Glucocorticoids: Binding Affinity and Lipophilicity, 973
Dermal Penetration Enhancement Profile of Hexamethylenelauramide and Its Homologues: In Vitro Versus In Vivo Behavior of Enhancers in the Penetration of Hydrocortisone, 1089

Hydrogen bonding
Linear Solvation Energy Relationships: 36. Molecular Properties Governing Solubilities of Organic Nonelectrolytes In Water, 338
Solubility Properties in Polymers and Biological Media: 6. An Equation for Correlation and Prediction of Solubilities of Liquid Organic Nonelectrolytes in Blood, 350
Intrinsic Molecular Volume as a Measure of the Cavity Term in Linear Solvation Energy Relationships: Octanol–Water Partition Coefficients and Aqueous Solubilities, 629

Hydrotropic salts
Solubilization of Water by Hydrotropic Salts, 644

4-Hydroxycoumarins
Apparent Dose Dependency of the Hepatic (*S*)-Acenocoumarol Clearance in the Rat: a Study using Open Liver Biopsies, 238

Hydroxypropyl cellulose films
Adhesion of Hydroxypropyl Cellulose Films to Low Energy Solid Substrates, 529

Hyperglycemic effect
In Vivo Hyperglycemic Effect of (−)- and (+)-Epinephrine in Dogs, 78

Hypolipidemic activity
Hypolipidemic Activity of *N,N*-Dimethyl-*n*-Octadecylamine Borane in Rodents, 706

Hypolipidemic agents
Hypolipidemic Activity of 6-Substituted 6,7-Dihydro-5*H*-dibenz[*c,e*]azepine and the Effects of 6,7-Dihydro-5*H*-dibenz[c,e]azepine on Lipid Metabolism of Rodents, 622

Imipenem
Compressed Pellet X-ray Diffraction Monitoring for Optimization of Crystallinity in Lyophilized Solids: Imipenem:Cilastatin Sodium Case, 805

Imipramine
^{13}C NMR Studies of the Molecular Flexibility of Antidepressants, 133
Interaction Between Antidepressants and $Alpha_1$-Adrenergic Receptor Antagonists on the Binding to $Alpha_1$-Acid Glycoprotein, 146
Inhibition of Binedaline Binding to Human α_1-Acid Glycoprotein and Other Serum Proteins by Chlorpromazine, Imipramine, and Propranolol, 883

Imipramine hydrochloride
Effects of Combined Administration of Diazepam and Imipramine Hydrochloride in Rats, 1071

Immunomodulators
Effect of the Immunomodulator Tilorone on Antipyrine Disposition in the Rat, 946

In situ perfusion
Comparison of Four Experimental Techniques for Studying Drug Absorption Kinetics in the Anesthetized Rat In Situ, 117

Inclusion complex
Enhancement of Bioavailability of Cinnarizine from Its β-Cyclodextrin Complex on Oral Administration with DL-Phenylalanine as a Competing Agent, 391

Indocyanine green
Indocyanine Green: Pharmacokinetics in the Rabbit and Relevant Studies of its Stability and Purity, 398

Indoramin
Liquid Chromatographic Assay Using Electrochemical Detection for the Quantitation of Indoramin in Human Plasma, 421

Induction
Kinetic Models of Induction: I. Persistence of the Inducing Substance, 223
Kinetic Models of Induction: II. Decreased Turnover of a Product or Its Precursor, 229
Characterization of Antipyrine Autoinduction in the Rat Utilizing A New Microsampling Technique for Serial Blood Sample Collections, 456

Inhibition
Inhibition of Vaccinia RNA Guanine 7-Methyltransferase by Compounds Designed as Multisubstrate Adducts, 142

Inhibitor
Radioimmunoassay for the Quantitation of Lisinopril and Enalaprilat, 512

Inorganic sulfate
Effect of Acetaminophen on Inorganic Sulfate Concentrations in Human Cerebrospinal Fluid, 722
Dissociation of Increased Sulfation from Sulfate Replenishment and Hepatoprotection in Acetaminophen-Poisoned Mice by *N*-Acetylcysteine Stereoisomers, 878

Insulin
Peptide–Carrier Interaction: Induction of Liposome Fusion and Aggregation by Insulin, 259
Determination of Total and Encapsulated Insulin in a Vesicle Formulation, 838

Interfacial barrier-controlled sorption
Kinetics of Sorption of Ionizable Solutes by Plastic Infusion Bags, 562

Interfacial resistance
Solute Transport Resistance at Water–Oil Interfaces, 1157

Intermediate sorption kinetics
Kinetics of Sorption of Ionizable Solutes by Plastic Infusion Bags, 562

Intermittent claudication
Pharmacokinetics of Orally Administered Pentoxifylline in Humans, 47
Inhibition of Pentoxifylline Clearance by Cimetidine, 155

Interspecies differences
Albumin-Induced Changes of Fluorescence Spectra of 1-Pyrenebutyric Acid, 193

Interspecies scaling
Comparison of Gastrointestinal pH in Dogs and Humans: Implications on the Use of the Beagle Dog as a Model for Oral Absorption in Humans, 271
Dosage Regimen Design for Pharmaceutical Studies Conducted in Animals, 852
Similarity Principles and Intrinsic Geometries: Contrasting Approaches to Interspecies Scaling, 1019
Man versus Beast: Pharmacokinetic Scaling in Mammals, 1028
Animal Extrapolation and the Challenge of Human Heterogeneity, 1041
Interspecies Scaling of Regional Drug Delivery, 1047
Time Concepts in Physics, Biology, and Pharmacokinetics, 1053
Comparison of Gastrointestinal pH in Dogs and Humans: Implications on the Use of the Beagle Dog as a Model for Oral Absorption in Humans correction, 1207

Intestinal perfusion studies
Polymeric Dyes: Limitations in Their Use as Reference Markers in Postcibal Studies, 382

Intranasal absorption
Intranasal Delivery of Nicardipine in the Rat, 44
Transnasal Systemic Medications: Fundamentals, Developmental Concepts and Biomedical Assessments (Chien, book reviews), 323
Intranasal Administration of Peptides: Nasal Deposition, Biological Response, and Absorption of Desmopressin, 1085

Intrarenal drug delivery
Target Organ Directed Drug Delivery: Evaluation of Renal Infusion of Chromium-51 Ethylenediaminetetraacetate and Sodium *o*-[^{125}I]Iodohippurate in the Wistar Kyoto Rat, 1137

Intrinsic geometries
Similarity Principles and Intrinsic Geometries: Contrasting Approaches to Interspecies Scaling, 1019

Ionization
Ionization and Surface Properties of Verapamil and Several Verapamil Analogues, 976

Ionophoric properties
Ionophoric Properties of Polysorbate 80, 983

Iontophoresis
Comparison Between the Iontophoretic and Passive Transport of Thyrotropin Releasing Hormone Across Excised Nude Mouse Skin, 738

Iris missouriensis
Plant Anticancer Agents XXXIX: Triterpenes from *Iris missouriensis* (Iridaceae)[1], 317

Iso-iridogermanal
Plant Anticancer Agents XXXIX: Triterpenes from *Iris missouriensis* (Iridaceae)[1], 317

Isopilocarpine
Isopilocarpine Binding to Muscarinic Cholinergic Receptors, 278

Isopropyl myristate
The Effect of Vehicle on the Diffusion of Salicylic Acid Through Hairless Mouse Skin, 744

Ketoconazole
Pharmacokinetics of Ketoconazole Administered Intravenously to Dogs and Orally as Tablet and Solution to Humans and Dogs, 443

Kidney stones
Metabolic Fate and Solubility of Triamterene—Not an Explanation for Triamterene Nephrolithiasis, 129

Kinetic models
Kinetic Models of Induction: II. Decreased Turnover of a Product or Its Precursor, 229
Effect of Particle Dissolution Rate on Ocular Drug Bioavailability, 280
Characterization of Antipyrine Autoinduction in the Rat Utilizing A New Microsampling Technique for Serial Blood Sample Collections, 456

Kinetics
Crystallization Kinetics of Oxalic Acid Dihydrate: Nonisothermal Desupersaturation of Solutions, 552
Evaluation of Growth Rate Constants of Oxalic Acid Dihydrate at Constant Supersaturation, 559
Kinetics of Sorption of Ionizable Solutes by Plastic Infusion Bags, 562
Dehydration and Epimerization of 7-Thiaprostaglandin E_1 Analogues, 992

Labetalol
Antihypertensive Aminotetralins Related to Labetalol and Medroxalol, 80

β-Lactam antibiotics
Recent Advances in the Chemistry of β-Lactam Antibiotics (Brown and Roberts, book reviews), 107
Intramolecular Nucleophilic Amino Attack in a Monobactam: Synthesis and Stability of (2*S*,3*S*)-3-[(2 *R*)-2-Amino-2-phenylacetamido]-2-methyl-4-oxo-1-azetidinesulfonic Acid, 304

Lactose
Determination of Partial Solubility Parameters of Lactose by Gas–Solid Chromatography, 68

Laminated system
Modeling and Numerical Computation of Drug Transport in Laminates: Model Case Evaluation of Transdermal Delivery System, 9

Laurocapram
Pharmacodynamic Measurement of Percutaneous Penetration Enhancement In Vivo, 374

Leuprolide
Single-Dose Pharmacokinetics of Leuprolide in Humans Following Intravenous and Subcutaneous Administration, 158

Levothyroxine
Determination of Liothyronine and Levothyroxine in Thyroid Preparations by Liquid Chromatography, 215

Lidocaine
Evaluation of Penetration Enhancement of Lidocaine by Nonionic Surfactants Through Hairless Mouse Skin In Vitro, 176
Drug Release Studies on an Oil–Water Emulsion Based on a Eutectic Mixture of Lidocaine and Prilocaine as the Dispersed Phase, 365
Elevated Plasma Glycoproteins in Fetal Sheep Do Not Bind Basic Lipophilic Drugs, 881

Ligand binding
Albumin-Induced Changes of Fluorescence Spectra of 1-Pyrenebutyric Acid, 193

Linear solvation energy relationships
Linear Solvation Energy Relationships: 36. Molecular Properties Governing Solubilities of Organic Nonelectrolytes In Water, 338
Solubility Properties in Polymers and Biological Media: 6. An Equation for Correlation and Prediction of Solubilities of Liquid Organic Nonelectrolytes in Blood, 350
Intrinsic Molecular Volume as a Measure of the Cavity Term in Linear Solvation Energy Relationships: Octanol–Water Partition Coefficients and Aqueous Solubilities, 629

Liothyronine
Determination of Liothyronine and Levothyroxine in Thyroid Preparations by Liquid Chromatography, 215

Lipophilicity
When Is a Trifluoromethyl Group More Lipophilic than a Methyl Group? Partition Coefficients and Selected Chemical Shifts of Aliphatic Alcohols and Trifluoroalcohols, 987

Liposomes
Peptide–Carrier Interaction: Induction of Liposome Fusion and Aggregation by Insulin, 259
Proliposomes: A Novel Solution to an Old Problem, 325
Characterization of Proliposomes, 330
Polymerized Phospholipid Vesicles Containing Amphotericin B: Evaluation of Toxic and Antifungal Activities In Vitro, 579
Characterization of Liposomes and an Emulsion Containing Mitomycin C or Lipophilic Mitomycin C Prodrugs, 1166

Liquid chromatography
Gradient Elution in Column Liquid Chromatography Theory and Practice (Jandera and Churacek, book reviews), 107

Lisinopril
Effect of Food on the Bioavailability of Lisinopril, a Nonsulfhydryl Angiotensin-Converting Enzyme Inhibitor, 395
Radioimmunoassay for the Quantitation of Lisinopril and Enalaprilat, 512

Lithium–catecholamine complexes
A Potentiometric Study of Lithium Complexation with Catecholamines, 73

Lithium complexation
A Potentiometric Study of Lithium Complexation with Catecholamines, 73

Liver biopsies
Apparent Dose Dependency of the Hepatic (*S*)-Acenocoumarol Clearance in the Rat: a Study using Open Liver Biopsies, 238

Local anesthetics
Drug Release Studies on an Oil–Water Emulsion Based on a Eutectic Mixture of Lidocaine and Prilocaine as the Dispersed Phase, 365

Luteinizing hormone-releasing hormone agonists
Prolonged Controlled-Release of Nafarelin, a Luteinizing Hormone-Releasing Hormone Analogue, From Biodegradable Polymeric Implants: Influence of Composition and Molecular Weight of Polymer, 356

Magaldrate
Action of Hydrochloric Acid on Aluminum Hydroxide–Magnesium Hydroxide Gels and Magaldrate: Quasi-Elastic Light Scattering Studies, 502

Magnesium hydroxide
Action of Hydrochloric Acid on Aluminum Hydroxide–Magnesium Hydroxide Gels and Magaldrate: Quasi-Elastic Light Scattering Studies, 502
Preparation, Characterization, and Controlled Release from Coprecipitates of Fluorescein and Magnesium Hydroxide, 756

Magnesium stearate
Drug–Excipient Interactions Resulting from Powder Mixing IV* Role of Lubricants and Their Effect on In Vitro Dissolution, 542

Magnetic microcapsules
Trapping of Chemical Carcinogens with Magnetic Polyethyleneimine Microcapsules: I. Microcapsule Preparation and In Vitro Reactivity of Encapsulated Nucleophiles, 831

Magnetite
Trapping of Chemical Carcinogens with Magnetic Polyethyleneimine Microcapsules: I. Microcapsule Preparation and In Vitro Reactivity of Encapsulated Nucleophiles, 831

Maprotiline
Interaction Between Antidepressants and $Alpha_1$-Adrenergic Receptor Antagonists on the Binding to $Alpha_1$-Acid Glycoprotein, 146

Marihuana
Marihuana '84, Proceedings of the Oxford Symposium on Cannabis (Harvey, book reviews), 728

Marijuana
The Substance Abuse Problems, vol. 2–New Issues for the 1980s (Cohen, book reviews), 825

Mass spectrometry
Relative Bioavailability of Metaproterenol in Humans Utilizing a Single Dose, Stable Isotope Approach, 886

Mathematical model
Prediction of Drug Residence Times in Regions of the Human Respiratory Tract Following Aerosol Inhalation, 433
A Pharmacodynamic Model for the Activity of Antibiotics Against Microorganisms under Nonsaturable Conditions, 1063
Prediction of Drug Residence Times in Regions of the Human Respiratory Tract Following Aerosol Inhalation correction, 1207

Matrix-controlled sorption
Kinetics of Sorption of Ionizable Solutes by Plastic Infusion Bags, 562

Matrix model
Time- or Position-Dependent Diffusivity as a Mechanism for Regulating Drug Release From Slab Matrix Systems: Theoretical Models, 717

Mean residence time
The Urinary Elimination "Time Lag": Determination of the Mean Residence Time from Drug Accumulation in the Urine During Infusion, 627
A Simple Method for Obtaining the Mean Residence Time of Metabolites in the Body, 818
Single Pass Mean Residence Time in Peripheral Tissues: A Distribution Parameter Intrinsic to the Tissue Affinity of a Drug, 1119

Meclofenoxate hydrochloride
Nonlinear Estimation of Kinetic Parameters for Solid-State Hydrolysis of Water-Soluble Drugs, 459
Nonlinear Estimation of Kinetic Parameters for Solid-State Hydrolysis of Water-Soluble Drugs correction, 1208

Medicinal chemistry
Medicinal Chemistry: The Role of Organic Chemistry in Drug Research (Roberts and Price, book reviews), 828

Medroxalol
Antihypertensive Aminotetralins Related to Labetalol and Medroxalol, 80

Mefenamic acid
Bioavailability of Mefenamic Acid: Influence of Food and Water Intake, 891

Membrane permeability
Pilocarpine Prodrugs I. Synthesis, Physicochemical Properties and Kinetics of Lactonization of Pilocarpic Acid Esters, 36
Effect of Particle Dissolution Rate on Ocular Drug Bioavailability, 280
Human Erythrocyte Membrane Permeability and Nitroxyl Spin-Label Reduction, 334
Effects of Salicylic Acid on the Permeability of the Plasma Membrane of the Small Intestine of the Rat: a Fluorescence Spectroscopic Approach to Elucidate the Mechanism of Promoted Drug Absorption, 475
Pilocarpine Prodrugs II. Synthesis, Stability, Bioconversion, and Physicochemical Properties of Sequentially Labile Pilocarpine Acid Diesters, 775

Mercurothiocyanate determination
Automated Flow-Injection Mercurothiocyanate Determination of Chloride Salts of Drugs for Routine Assays: Content Uniformity and Dissolution Studies, 800

Metabolism
A Simulation Study on the Effect of a Uniform Diffusional Barrier Across Hepatocytes on Drug Metabolism by Evenly or Unevenly Distributed Uni-enzyme in the Liver, 3
Pharmacokinetics of Orally Administered Pentoxifylline in Humans, 47
Hepatic Binding and Michaelis–Menten Metabolism of Drugs, 660
Probenecid Disposition by Parallel Michaelis–Menten and Dose-Dependent Pseudo-First-Order Processes, 664
Biochemical Pharmacology and Toxicology. Vol. I. Methodological Aspects of Drug Metabolizing Enzymes (Zakim and Vessey, book reviews), 727
Extrahepatic Metabolism and Distribution of Aspirin in Vascular Beds of Sheep, 731
A Simple Method for Obtaining the Mean Residence Time of Metabolites in the Body, 818
General Method for Assessing Bioavailability of Drugs Undergoing Reversible Metabolism in a Linear System, 820
Evaluation of Drug Absorption and Presystemic Metabolism Using an In Situ Intestinal Preparation, 869
Functional Group Metabolism of Dopamine-2 Agonists: Conversion of 4-(2-Di-*n*-propylaminoethyl)-2-(3*H*)-indolone to 4-(2-Di-*n*-propylaminoethyl)-7-hydroxy-2-(3*H*)-indolone, 929
Effect of the Immunomodulator Tilorone on Antipyrine Disposition in the Rat, 946
In Vitro Inhibition of Histamine Metabolism in Guinea Pig Lung by *S*-(−)-Nicotine, 949

Metal–ligand stability constants
Thermodynamic Proton–Ligand and Metal–Ligand Stability Constants of Some Drugs, 190

Metaproterenol
Relative Bioavailability of Metaproterenol in Humans Utilizing a Single Dose, Stable Isotope Approach, 886

Methadone
Elevated Plasma Glycoproteins in Fetal Sheep Do Not Bind Basic Lipophilic Drugs, 881

Methenamine
Separation and Quantitation of Methenamine in Urine by Ion-Pair Extraction, 416

Methyl nicotinate
Solute Transport Resistance at Water–Oil Interfaces, 1157

***p*-Methylbenzoic acid**
Effects of Solvent Polarity on the Acid Dissociation Constants of Benzoic Acids, 182

Methylene blue
Prevention of Molecular Self-Association by Sodium Salicylate: Effect on Methylene Blue, 384

Methylprednisolone
Pharmacokinetics of Methylprednisolone; Methylprednisolone Sodium Succinate, and Methylprednisolone Acetate in Dogs, 251

6α-Methylprednisolone
6α-Methylprednisolone and 6α-Methylprednisone Plasma Protein Binding in Humans and Rabbits, 760

Methylprednisolone acetate
Pharmacokinetics of Methylprednisolone; Methylprednisolone Sodium Succinate, and Methylprednisolone Acetate in Dogs, 251

Methylprednisolone sodium succinate
Pharmacokinetics of Methylprednisolone; Methylprednisolone Sodium Succinate, and Methylprednisolone Acetate in Dogs, 251

6α-Methylprednisone
6α-Methylprednisolone and 6α-Methylprednisone Plasma Protein Binding in Humans and Rabbits, 760

17α-Methyltestosterone
Stable-Isotope Methodology in the Bioavailability Study of 17α-Methyltestosterone using Gas Chromatography–Mass Spectrometry, 161

Mianserin
^{13}C NMR Studies of the Molecular Flexibility of Antidepressants, 133

Michaelis–Menten kinetics
Hepatic Binding and Michaelis–Menten Metabolism of Drugs, 660
Probenecid Disposition by Parallel Michaelis–Menten and Dose-Dependent Pseudo-First-Order Processes, 664

Microbial metabolism
Microbial Metabolism of Bornaprine, 3-(Diethylamino)propyl 2-Phenylbicyclo[2.2.1]heptane-2-carboxylate, 614

Microcapsules
Trapping of Chemical Carcinogens with Magnetic Polyethyleneimine Microcapsules: I. Microcapsule Preparation and In Vitro Reactivity of Encapsulated Nucleophiles, 831
5-Fluorouracil:Carnauba Wax Microspheres for Chemoembolization: An In Vitro Evaluation, 847

Microclimate-pH
Effects of Potential Damaging Agents on the Microclimate-pH in the Rat Jejunum, 1162

Microencapsulation
Some Factors Affecting the Microencapsulation of Pharmaceuticals with Cellulose Acetate Phthalate, 573

Microinfusion
Transport of Cisplatin in Rat Brain Following Microinfusion: an Analysis, 120

Microparticles
Biodegradable Microspheres III: Some Immunological Properties of Polyacryl Starch Microparticles, 697
Biodegradable Microspheres IV: Factors Affecting the Distribution and Degradation of Polyacryl Starch Microparticles, 962

Microsampling technique
Characterization of Antipyrine Autoinduction in the Rat Utilizing A New Microsampling Technique for Serial Blood Sample Collections, 456

Microspheres
Effect of a Selected Suppression of the Reticuloendothelial System on the Distribution of Model Carrier Particles, 16
Biodegradable Microspheres III: Some Immunological Properties of Polyacryl Starch Microparticles, 697
Formation and Characterization of Cisplatin Loaded Poly(*d,l*-Lactide) Microspheres for Chemoembolization, 750
5-Fluorouracil:Carnauba Wax Microspheres for Chemoembolization: An In Vitro Evaluation, 847
Biodegradable Microspheres IV: Factors Affecting the Distribution and Degradation of Polyacryl Starch Microparticles, 962

Mitomycin C
Degradation Kinetics and Mechanism of N^6-[(Dimethylamino)methylene]mitomycin C in Aqueous Solutions, 208
Characterization of Liposomes and an Emulsion Containing Mitomycin C or Lipophilic Mitomycin C Prodrugs, 1166

Mitomycin C analogues
Degradation Kinetics and Mechanism of N^6-[(Dimethylamino)methylene]mitomycin C in Aqueous Solutions, 208

Mitomycin C Prodrugs
Characterization of Liposomes and an Emulsion Containing Mitomycin C or Lipophilic Mitomycin C Prodrugs, 1166

Mixing-tank model
Mixing-Tank Model for Predicting Dissolution Rate Control of Oral Absorption, 109

Modeling
Modeling and Numerical Computation of Drug Transport in Laminates: Model Case Evaluation of Transdermal Delivery System, 9

Moisture transmission
A Novel Radiotracer Method for the Precise Determination of Water Vapor Transmission Rate Characteristics of Packaging Systems, 808

Molecular orbital calculations
Molecular Orbital Calculations of Proton Transfer Involving Amines as Models for the Clastic Binding of Opiates with Their Receptor, 769

Monobactams
Intramolecular Nucleophilic Amino Attack in a Monobactam: Synthesis and Stability of (2*S*,3*S*)-3-[(2*R*)-2-Amino-2-phenylacetamido]-2-methyl-4-oxo-1-azetidinesulfonic Acid, 304

Morphine
Synthesis of 3-*O*- and 6-*O*-Propanoylmorphine—A Reinvestigation and Correction, 787
Pharmacokinetics of Morphine and Its Surrogates VIII: Naloxone and Naloxone Conjugate Pharmacokinetics in Dogs as a Function of Dose and as Affected by Simultaneously Administered Morphine, 1127
Coulometric High-Performance Liquid Chromatographic Analysis of Morphine in Biological Fluids, 1198

Murine P-388 leukemia
Spiromustine Analogues. Relationships Between Structure, Plasma Stability, and Antitumor Activity, 313

Muscarinic cholinergic receptors
Isopilocarpine Binding to Muscarinic Cholinergic Receptors, 278

Nafarelin
Prolonged Controlled-Release of Nafarelin, a Luteinizing Hormone-Releasing Hormone Analogue, From Biodegradable Polymeric Implants: Influence of Composition and Molecular Weight of Polymer, 356

Nalbuphine
Buccal and Oral Bioavailability of Nalbuphine in Rats, 218

Naloxol
Pharmacokinetics of Morphine and Its Surrogates VIII: Naloxone and Naloxone Conjugate Pharmacokinetics in Dogs as a Function of Dose and as Affected by Simultaneously Administered Morphine, 1127

Naloxone
Pharmacokinetics of Morphine and Its Surrogates VIII: Naloxone and Naloxone Conjugate Pharmacokinetics in Dogs as a Function of Dose and as Affected by Simultaneously Administered Morphine, 1127

Nanocapsules
Physicochemical and Morphological Characterization of Polyisobutyl Cyanoacrylate Nanocapsules, 361

Nanoparticles
Distribution of Polyhexyl Cyanoacrylate Nanoparticles in Nude Mice Bearing Human Osteosarcoma, 256
Physicochemical and Morphological Characterization of Polyisobutyl Cyanoacrylate Nanocapsules, 361
Disposition Kinetics and Oral Bioavailability of Vincamine-Loaded Polyalkyl Cyanoacrylate Nanoparticles, 955

Nasal administration
Intranasal Delivery of Nicardipine in the Rat, 44
Intranasal Administration of Peptides: Nasal Deposition, Biological Response, and Absorption of Desmopressin, 1085

Nefopam
Conformation of Nefopam Hydrochloride, a Novel Analgesic, 772

Nephrolithiasis
Metabolic Fate and Solubility of Triamterene—Not an Explanation for Triamterene Nephrolithiasis, 129

Neuromethods
Neuromethods: vol. 2. Amines and Their Metabolites (Boulton, Baker, and Baker, book reviews), 827
Neuromethods: vol. 3. Amino Acids (Boulton, Baker and Wood, book reviews), 827

Nicardipine
Intranasal Delivery of Nicardipine in the Rat, 44

Nicotinamide ⇆ dihydronicotinamide redox pair
Improved Delivery Through Biological Membranes XX[1]: Nicotinamide ⇆ Dihydronicotinamide Based Ester-Linked Redox Carrier Systems, 29

Nicotine
In Vitro Inhibition of Histamine Metabolism in Guinea Pig Lung by *S*-(−)-Nicotine, 949

Nicotinic acid
Percutaneous Penetration of Nicotinates: In Vivo and In Vitro Measurements, 968

Nicotinyl 6-aminonicotinate
Hydrolysis of Nicotinyl 6-Aminonicotinate, 204

Nifedipine
Sustained Release of Nifedipine from Granules, 57

Nitrobenzene
Cytotoxic Effects of 1,2-Dichloroethane, Nitrobenzene, and Carbon Disulfide on Human KB and Monkey AGMK Cells, 1190

Nitrofurantoin
Studies on Freeze-Dried Drug–Milk Formulations II: Effect of Regenerated Fluid Volume on Nitrofurantoin Bioavailability, 1145

Nitrofurazone
Thermodynamic Proton–Ligand and Metal–Ligand Stability Constants of Some Drugs, 190

Nitroglycerin
The Bioavailability of Oral Nitroglycerin, 241
Relative Bioavailability of Two Spray Formulations of Nitroglycerin, 244
Relative Bioavailability of a New Transdermal Nitroglycerin Delivery System, 688

Nitroxyl spin labels
Human Erythrocyte Membrane Permeability and Nitroxyl Spin-Label Reduction, 334

NMR
Pyrazolo[4,5-*c*]quinolines. 3. Synthesis, Receptor Binding, and ^{13}C NMR Study, 1175

***N,N'*-didodecanoyl-4,4'-sulfonylbisbenzamine**
Sustained-Release Delivery Systems, I: Phase Diagram Studies of Dapsone and Selected Derivatives, 53
Sustained-Release Delivery Systems, I: Phase Diagram Studies of Dapsone and Selected Derivatives correction, 1207

Nomifensine
Interaction Between Antidepressants and Alpha$_1$-Adrenergic Receptor Antagonists on the Binding to Alpha$_1$-Acid Glycoprotein, 146

Nonionic surfactants
Evaluation of Penetration Enhancement of Lidocaine by Nonionic Surfactants Through Hairless Mouse Skin In Vitro, 176
Contribution of Calcium Ion Sequestration by Polyoxyethylated Nonionic Surfactants to the Enhanced Colonic Absorption of *p*-Aminobenzoic Acid, 387

Nonsteroidal anti-inflammatory drugs
Dissolution and Partition Thermodynamic Functions of Some Nonsteroidal Anti-inflammatory Drugs, 23

Nortriptyline
^{13}C NMR Studies of the Molecular Flexibility of Antidepressants, 133
Interaction Between Antidepressants and Alpha$_1$-Adrenergic Receptor Antagonists on the Binding to Alpha$_1$-Acid Glycoprotein, 146

NSAID
Dissolution and Partition Thermodynamic Functions of Some Nonsteroidal Anti-inflammatory Drugs, 23
Nonsteroidal Antiinflammatory Drugs, vol. 5, Chemistry and Pharmacology of Drugs (Lombardino, book reviews), 826

Numerical computation
Modeling and Numerical Computation of Drug Transport in Laminates: Model Case Evaluation of Transdermal Delivery System, 9

1-Octanol
The Effect of Vehicle on the Diffusion of Salicylic Acid Through Hairless Mouse Skin, 744

Ocular bioavailability
Pilocarpine Prodrugs I. Synthesis, Physicochemical Properties and Kinetics of Lactonization of Pilocarpic Acid Esters, 36
Effect of Particle Dissolution Rate on Ocular Drug Bioavailability, 280
Pilocarpine Prodrugs II. Synthesis, Stability, Bioconversion, and Physicochemical Properties of Sequentially Labile Pilocarpine Acid Diesters, 775

Ocular drug delivery
Ocular Therapeutics and Pharmacology, 7th ed. (Ellis, book reviews), 220

Opiates
Molecular Orbital Calculations of Proton Transfer Involving Amines as Models for the Clastic Binding of Opiates with Their Receptor, 769

Oral hypoglycemic agents
Conformation of Glyburide in the Solid State and in Solution, 596

Organophosphate-inhibited acetylcholinesterase
Stability Studies of Bis(Pyridiniumaldoxime) Reactivators of Organophosphate-Inhibited Acetylcholinesterase, 797

Oscillating perfusion
Comparison of Four Experimental Techniques for Studying Drug Absorption Kinetics in the Anesthetized Rat In Situ, 117

Oxalic acid
Crystallization Kinetics of Oxalic Acid Dihydrate: Nonisothermal Desupersaturation of Solutions, 552
Evaluation of Growth Rate Constants of Oxalic Acid Dihydrate at Constant Supersaturation, 559

Oxaprozin
Effect of Polyethylene Glycol 400 on the Penetration of Drugs Through Human Cadaver Skin In Vitro, 26

P-388 leukemia
Plant Anticancer Agents XXXIX: Triterpenes from *Iris missouriensis* (Iridaceae)[1], 317

Package integrity testing
Parenteral Quality Control: Sterility, Pyrogen, Particulate, and Package Integrity Testing (Akers, book reviews), 102

Packaging systems
A Novel Radiotracer Method for the Precise Determination of Water Vapor Transmission Rate Characteristics of Packaging Systems, 808

Parenteral technology
Parenteral Technology Manual (Groves, book reviews), 103

Partial solubility parameters
Determination of Partial Solubility Parameters of Lactose by Gas–Solid Chromatography, 68

Particulate matter testing
Parenteral Quality Control: Sterility, Pyrogen, Particulate, and Package Integrity Testing (Akers, book reviews), 102

Partition coefficients
Dissolution and Partition Thermodynamic Functions of Some Nonsteroidal Anti-inflammatory Drugs, 23
Human Erythrocyte Membrane Permeability and Nitroxyl Spin-Label Reduction, 334
Linear Solvation Energy Relationships: 36. Molecular Properties Governing Solubilities of Organic Nonelectrolytes In Water, 338
Solubility Properties in Polymers and Biological Media: 6. An Equation for Correlation and Prediction of Solubilities of Liquid Organic Nonelectrolytes in Blood, 350
Drug Release Studies on an Oil–Water Emulsion Based on a Eutectic Mixture of Lidocaine and Prilocaine as the Dispersed Phase, 365
Influence of Skin Source, Penetration Cell Fluid, and Partition Coefficient on In Vitro Skin Penetration, 378
2,2′-Phthaloyl-, 2,2′-Isophthaloyl-, and 2,2′-Terephthaloylbis[1,1,1-trimethylhydrazinium] Dihydroxide, Bis(Inner Salts): Synthesis, Partition Coefficients, Toxicity and Effect on Ganglionic Transmission, 407
Intrinsic Molecular Volume as a Measure of the Cavity Term in Linear Solvation Energy Relationships: Octanol–Water Partition Coefficients and Aqueous Solubilities, 629
Comparison of Calculated Versus Measured Partition Coefficients of Some Phenyl β-D-Glucopyranosides, 637
Hepatic Binding and Michaelis–Menten Metabolism of Drugs, 660
The Effect of Vehicle on the Diffusion of Salicylic Acid Through Hairless Mouse Skin, 744
Percutaneous Penetration of Nicotinates: In Vivo and In Vitro Measurements, 968
Glucocorticoids: Binding Affinity and Lipophilicity, 973
When Is a Trifluoromethyl Group More Lipophilic than a Methyl Group? Partition Coefficients and Selected Chemical Shifts of Aliphatic Alcohols and Trifluoroalcohols, 987
Permeation of Mouse Skin and Silicone Rubber Membranes by Phenols: Relationship to In Vitro Partitioning, 1098
Characterization of Liposomes and an Emulsion Containing Mitomycin C or Lipophilic Mitomycin C Prodrugs, 1166

Partition thermodynamic functions
Dissolution and Partition Thermodynamic Functions of Some Nonsteroidal Anti-inflammatory Drugs, 23

Penetration enhancers
Evaluation of Penetration Enhancement of Lidocaine by Nonionic Surfactants Through Hairless Mouse Skin In Vitro, 176
Pharmacodynamic Measurement of Percutaneous Penetration Enhancement In Vivo, 374
Physicochemical Study of Percutaneous Absorption Enhancement by Dimethyl Sulfoxide: Kinetic and Thermodynamic Determinants of Dimethyl Sulfoxide Mediated Mass Transfer of Alkanols, 479
Dermal Penetration Enhancement Profile of Hexamethylenelauramide and Its Homologues: In Vitro Versus In Vivo Behavior of Enhancers in the Penetration of Hydrocortisone, 1089

Penetration rates
Effect of Polyethylene Glycol 400 on the Penetration of Drugs Through Human Cadaver Skin In Vitro, 26

Pentaerythritol tetranitrate
Pharmacokinetics of Pentaerythritol Tetranitrate Following Intra-arterial and Oral Dosing in the Rat, 247

Pentobarbital
Liquid Chromatographic Assays for Barbiturate Injections, 714
Liquid Chromatographic Assays for Barbiturate Injections correction, 1208

Pentoxifylline
Pharmacokinetics of Orally Administered Pentoxifylline in Humans, 47
Inhibition of Pentoxifylline Clearance by Cimetidine, 155

α-Pentyl-3-(2-quinolinylmethoxy)benzenemethanol
Water Migration from Soft Gelatin Capsule Shell to Fill Material and Its Effect on Drug Solubility, 62
Preformulation Study of a Poorly Water-Soluble Drug, α-Pentyl-3-(2-quinolinylmethoxy)benzenemethanol: Selection of the Base for Dosage Form Design, 492
Water Migration from Soft Gelatin Capsule Shell to Fill Material and Its Effect on Drug Solubility correction, 1208

Peptide hormones
Prolonged Controlled-Release of Nafarelin, a Luteinizing Hormone-Releasing Hormone Analogue, From Biodegradable Polymeric Implants: Influence of Composition and Molecular Weight of Polymer, 356
Comparison Between the Iontophoretic and Passive Transport of Thyrotropin Releasing Hormone Across Excised Nude Mouse Skin, 738

Peptides
Peptide–Carrier Interaction: Induction of Liposome Fusion and Aggregation by Insulin, 259
Intranasal Administration of Peptides: Nasal Deposition, Biological Response, and Absorption of Desmopressin, 1085

Percutaneous absorption
Evaluation of Penetration Enhancement of Lidocaine by Nonionic Surfactants Through Hairless Mouse Skin In Vitro, 176
Pharmacodynamic Measurement of Percutaneous Penetration Enhancement In Vivo, 374
Influence of Skin Source, Penetration Cell Fluid, and Partition Coefficient on In Vitro Skin Penetration, 378
Physicochemical Study of Percutaneous Absorption Enhancement by Dimethyl Sulfoxide: Kinetic and Thermodynamic Determinants of Dimethyl Sulfoxide Mediated Mass Transfer of Alkanols, 479
Methods for In Vitro Percutaneous Absorption Studies VI: Preparation of the Barrier Layer, 487
Methods for In Vitro Percutaneous Absorption Studies VII: Use of Excised Human Skin, 1094

Percutaneous penetration
Percutaneous Penetration of Nicotinates: In Vivo and In Vitro Measurements, 968

Perfused rat liver
The Hepatic Sinusoid is Not Well-Stirred: Estimation of the Degree of Axial Mixing by Analysis of Lobular Concentration Gradients Formed During Uptake of Thyroxine by the Perfused Rat Liver, 233

Perfused rat lung
An Isolated Perfused Rat Lung Preparation for the Study of Aerosolized Drug Deposition and Absorption, 168

Perfusion
Comparison of Four Experimental Techniques for Studying Drug Absorption Kinetics in the Anesthetized Rat In Situ, 117

Peripheral tisues
Single Pass Mean Residence Time in Peripheral Tissues: A Distribution Parameter Intrinsic to the Tissue Affinity of a Drug, 1119

Permeability
Pilocarpine Prodrugs I. Synthesis, Physicochemical Properties and Kinetics of Lactonization of Pilocarpic Acid Esters, 36
Effect of Particle Dissolution Rate on Ocular Drug Bioavailability, 280
Human Erythrocyte Membrane Permeability and Nitroxyl Spin-Label Reduction, 334
Influence of Skin Source, Penetration Cell Fluid, and Partition Coefficient on In Vitro Skin Penetration, 378
Effects of Salicylic Acid on the Permeability of the Plasma Membrane of the Small Intestine of the Rat: a Fluorescence Spectroscopic Approach to Elucidate the Mechanism of Promoted Drug Absorption, 475
Physicochemical Study of Percutaneous Absorption Enhancement by Dimethyl Sulfoxide: Kinetic and Thermodynamic Determinants of Dimethyl Sulfoxide Mediated Mass Transfer of Alkanols, 479
Pilocarpine Prodrugs II. Synthesis, Stability, Bioconversion, and Physicochemical Properties of Sequentially Labile Pilocarpine Acid Diesters, 775
Methods for In Vitro Percutaneous Absorption Studies VII: Use of Excised Human Skin, 1094
Permeation of Mouse Skin and Silicone Rubber Membranes by Phenols: Relationship to In Vitro Partitioning, 1098
Determination of the Dissolution Rate Controlling Process for Isomeric Amides in Alkane Solvents, 1104

Permeability coefficients
The Effect of Vehicle on the Diffusion of Salicylic Acid Through Hairless Mouse Skin, 744
Permeation of Mouse Skin and Silicone Rubber Membranes by Phenols: Relationship to In Vitro Partitioning, 1098

PGE_1–heparin conjugate
In Vitro Bioactivity of a Synthesized Prostaglandin E_1–Heparin Conjugate, 172

pH-dependent release
Sustained Release of Nifedipine from Granules, 57

pH-independent release
Sustained Release of Nifedipine from Granules, 57

Pharmaceutical sciences
Topics in Pharmaceutical Sciences (Breimer and Speiser, book reviews), 822

Pharmacodynamics
Pharmacodynamic Measurement of Percutaneous Penetration Enhancement In Vivo, 374
Pharmacokinetics and Pharmacodynamics of Psychoactive Drugs (Barnett and Chiang, book reviews), 825
A Pharmacodynamic Model for the Activity of Antibiotics Against Microorganisms under Nonsaturable Conditions, 1063

Pharmacokinetics
Pharmacokinetics of Orally Administered Pentoxifylline in Humans, 47
Antibiotics and Chemotherapy: Pharmacokinetics of Sulfonamides Revisited, vol. 34 (Vree and Hekster, book reviews), 103
Effect of Renal Failure or Biliary Stasis on the Pharmacokinetics of Amiodarone in the Rat, 150
Inhibition of Pentoxifylline Clearance by Cimetidine, 155
Single-Dose Pharmacokinetics of Leuprolide in Humans Following Intravenous and Subcutaneous Administration, 158
Kinetic Models of Induction: I. Persistence of the Inducing Substance, 223
Kinetic Models of Induction: II. Decreased Turnover of a Product or Its Precursor, 229
Apparent Dose Dependency of the Hepatic (*S*)-Acenocoumarol Clearance in the Rat: a Study using Open Liver Biopsies, 238
Pharmacokinetics of Pentaerythritol Tetranitrate Following Intra-arterial and Oral Dosing in the Rat, 247
Pharmacokinetics of Methylprednisolone; Methylprednisolone Sodium Succinate, and Methylprednisolone Acetate in Dogs, 251
Convection–Dispersion Modeling of Hepatic Elimination, 321
Indocyanine Green: Pharmacokinetics in the Rabbit and Relevant Studies of its Stability and Purity, 398
Comparison of Harmonic Mean versus Arithmetic Mean Clearance Values, 427
Pharmacokinetics of the Enantiomers of Tiaprofenic Acid in Humans, 439
Pharmacokinetics of Ketoconazole Administered Intravenously to Dogs and Orally as Tablet and Solution to Humans and Dogs, 443
Exponential Intravenous Infusions in Toxicological Studies: Achieving Identical Serum Drug Concentration Profiles in Individuals with Altered Pharmacokinetic States, 448
Use of Simultaneous Computer Fitting to Estimate the Apparent Absorption Rate Constant, 452
Characterization of Antipyrine Autoinduction in the Rat Utilizing A New Microsampling Technique for Serial Blood Sample Collections, 456
Pharmacokinetics of Dothiepin in Humans: A Single Dose Dose–Proportionality Study, 582
Absorption and Disposition of Aluminum in the Rat, 586
The Urinary Elimination "Time Lag": Determination of the Mean Residence Time from Drug Accumulation in the Urine During Infusion, 627
Hepatic Binding and Michaelis–Menten Metabolism of Drugs, 660
Probenecid Disposition by Parallel Michaelis–Menten and Dose-Dependent Pseudo-First-Order Processes, 664
Discontinuous Oral Absorption of Cimetropium Bromide, a New Antispasmodic Drug, 680
Placental Transfer of Diphenhydramine in Chronically Instrumented Pregnant Sheep, 685
Relative Bioavailability of a New Transdermal Nitroglycerin Delivery System, 688
Extrahepatic Metabolism and Distribution of Aspirin in Vascular Beds of Sheep, 731
A Simple Method for Obtaining the Mean Residence Time of Metabolites in the Body, 818
General Method for Assessing Bioavailability of Drugs Undergoing Reversible Metabolism in a Linear System, 820
Pharmacokinetic Basis for Drug Treatment (Benet, Massoud, and Gambertoglio, book reviews), 823
Pharmacokinetics in Clinical Practice (Greenblatt and Shader, book reviews), 824
Pharmacokinetics and Pharmacodynamics of Psychoactive Drugs (Barnett and Chiang, book reviews), 825
Pharmacokinetics, A Modern View (Benet, Levy, Ferraiolo, book reviews), 825
Pharmacokinetics of Cardiovascular, Central Nervous System, and Antimicrobial Drugs (Welling and Tse, book reviews), 829
Dosage Regimen Design for Pharmaceutical Studies Conducted in Animals, 852
Noninvasive Estimation of Bound and Mobile Platinum Compounds in the Kidney Using a Radiopharmacokinetic Model, 873
Simultaneous First- and Zero-Order Absorption of Carbamazepine Tablets in Humans, 897
The Initial Rate of Change in Distribution Volume is the Sum of Intercompartmental Clearances, 919
Pharmacokinetics of Dopamine-2 Agonists in Rats and Dogs, 925
Pharmacokinetics of Intravenous Bepridil In Patients With Coronary Disease, 952
Lack of Clinically Significant In Vitro and In Vivo Interactions between Ranitidine and Sucralfate, 995
Noncompartmental Determination of the Absorption Rate Constant, 1014
Man versus Beast: Pharmacokinetic Scaling in Mammals, 1028
Interspecies Scaling of Regional Drug Delivery, 1047
Time Concepts in Physics, Biology, and Pharmacokinetics, 1053
A Pharmacodynamic Model for the Activity of Antibiotics Against Microorganisms under Nonsaturable Conditions, 1063
Effects of Combined Administration of Diazepam and Imipramine Hydrochloride in Rats, 1071
Plasma Levels of the Prodrug, Arbaprostil, [(15*R*)-15-Methylprostaglandin E_2], and its Active, Antiulcer (15*S*) Epimer in Humans after Single Dose Oral Administration, 1107
Single Pass Mean Residence Time in Peripheral Tissues: A Distribution Parameter Intrinsic to the Tissue Affinity of a Drug, 1119
Pharmacokinetics of Morphine and Its Surrogates VIII: Naloxone and Naloxone Conjugate Pharmacokinetics in Dogs as a Function of Dose and as Affected by Simultaneously Administered Morphine, 1127
Target Organ Directed Drug Delivery: Evaluation of Renal Infusion of Chromium-51 Ethylenediaminetetraacetate and Sodium *o*-[^{125}I]Iodohippurate in the Wistar Kyoto Rat, 1137
Drug Availability to Noneliminating Tissues and Sites of Action Following an Intravenous Dose, 1141
Noncompartmental Determination of the Absorption Rate Constant correction, 1208

Pharmacology
Drugs in Central Nervous System Disorders (Horwell, book reviews), 102
Annual Review of Pharmacology and Toxicology, vol. 25 (George, Okun, and Cho, book reviews), 104
Pharmacology of Intestinal Permeation I and II (Csaky, book reviews), 104
Pharmacological and Chemical Synonyms (Marler, book reviews), 726
Biochemical Pharmacology and Toxicology. Vol. I. Methodological Aspects of Drug Metabolizing Enzymes (Zakim and Vessey, book reviews), 727
The Pharmacological Basis of Therapeutics, 7th ed. (Gilman, Goodman, Rall, and Murad, book reviews), 829

Phenethyl alcohol
2,3,5-Triphenyltetrazolium Chloride as a Novel Tool in Germicide Dynamics, 912

Phenobarbital
Liquid Chromatographic Assays for Barbiturate Injections, 714
Liquid Chromatographic Assays for Barbiturate Injections correction, 1208

DL-Phenylalanine
Enhancement of Bioavailability of Cinnarizine from Its β-Cyclodextrin Complex on Oral Administration with DL-Phenylalanine as a Competing Agent, 391

Phenylbutazone
Determination of Azobenzene and Hydrabenzene in Phenylbutazone and Sulfinpyrazone Products by High Performance Liquid Chromatography correction, 1207

Phenytoin
Comparison of Ultraviolet and Liquid Chromatographic Methods for Dissolution Testing of Sodium Phenytoin Capsules, 1113

Photon correlation spectroscopy
Characterization of Proliposomes, 330

Pilocarpine
Isopilocarpine Binding to Muscarinic Cholinergic Receptors, 278

Pilocarpine prodrugs
Pilocarpine Prodrugs I. Synthesis, Physicochemical Properties and Kinetics of Lactonization of Pilocarpic Acid Esters, 36
Pilocarpine Prodrugs II. Synthesis, Stability, Bioconversion, and Physicochemical Properties of Sequentially Labile Pilocarpine Acid Diesters, 775

Pindolol
High Performance Liquid Chromatographic Determination of the Enantiomers of β-Adrenoceptor Blocking Agents in Biological Fluids I: Studies with Pindolol, 601

pK_a values
Effects of Solvent Polarity on the Acid Dissociation Constants of Benzoic Acids, 182

Placental transfer
Placental Transfer of Diphenhydramine in Chronically Instrumented Pregnant Sheep, 685

Plant drugs
Plant Drug Analysis (Wagner, Bladt and Zgainski, book reviews), 829

Platelet aggregation
In Vitro Bioactivity of a Synthesized Prostaglandin E_1–Heparin Conjugate, 172

Podophyllotoxin
Thermal Chemistry of Podohyllotoxin in Ethanol and a Comparison of the Cytostatic Activity of the Thermolysis Products, 1076

Polyacryl starch microparticles
Biodegradable Microspheres III: Some Immunological Properties of Polyacryl Starch Microparticles, 697

Polycyanine
Polymeric Dyes: Limitations in Their Use as Reference Markers in Postcibal Studies, 382

Poly(di-methylsiloxane) membrane
Drug Release Studies on an Oil–Water Emulsion Based on a Eutectic Mixture of Lidocaine and Prilocaine as the Dispersed Phase, 365

Poly(*d,l*-lactide-co-glycolide)
Prolonged Controlled-Release of Nafarelin, a Luteinizing Hormone-Releasing Hormone Analogue, From Biodegradable Polymeric Implants: Influence of Composition and Molecular Weight of Polymer, 356

Poly(*d,l*-lactide) microspheres
Formation and Characterization of Cisplatin Loaded Poly(*d,l*-Lactide) Microspheres for Chemoembolization, 750

Polyethylene glycol 400
Effect of Polyethylene Glycol 400 on the Penetration of Drugs Through Human Cadaver Skin In Vitro, 26

Polyethyleneimine
Trapping of Chemical Carcinogens with Magnetic Polyethyleneimine Microcapsules: I. Microcapsule Preparation and In Vitro Reactivity of Encapsulated Nucleophiles, 831

Polyhexyl cyanoacrylate nanoparticles
Distribution of Polyhexyl Cyanoacrylate Nanoparticles in Nude Mice Bearing Human Osteosarcoma, 256

Polyisobutyl cyanoacrylate nanocapsules
Physicochemical and Morphological Characterization of Polyisobutyl Cyanoacrylate Nanocapsules, 361

Polymeric dyes
Polymeric Dyes: Limitations in Their Use as Reference Markers in Postcibal Studies, 382

Polymeric liposomes
Polymerized Phospholipid Vesicles Containing Amphotericin B: Evaluation of Toxic and Antifungal Activities In Vitro, 579

Polymorphs
Surface Electric Charge of the Active and Inactive Polymorphs of Chloramphenicol Palmitate, 187
Effect of Seed Crystals on Solid-State Transformation of Polymorphs of Chloramphenicol Palmitate During Grindling[1], 506

Polyprophyre
Polymeric Dyes: Limitations in Their Use as Reference Markers in Postcibal Studies, 382

Polysorbate 20
Evaluation of Penetration Enhancement of Lidocaine by Nonionic Surfactants Through Hairless Mouse Skin In Vitro, 176

Polysorbate 60
Evaluation of Penetration Enhancement of Lidocaine by Nonionic Surfactants Through Hairless Mouse Skin In Vitro, 176

Polysorbate 80
Ionophoric Properties of Polysorbate 80, 983

Polystyrene microspheres
Effect of a Selected Suppression of the Reticuloendothelial System on the Distribution of Model Carrier Particles, 16

Polyvinyl chloride infusion bags
Kinetics of Sorption of Ionizable Solutes by Plastic Infusion Bags, 562

Postcibal studies
Polymeric Dyes: Limitations in Their Use as Reference Markers in Postcibal Studies, 382

Potentiometric Study
A Potentiometric Study of Lithium Complexation with Catecholamines, 73

Pralidoxime chloride
Degradation Pathway of Pralidoxime Chloride in Concentrated Acidic Solution, 608

Prazosin
Interaction Between Antidepressants and $Alpha_1$-Adrenergic Receptor Antagonists on the Binding to $Alpha_1$-Acid Glycoprotein, 146

Prednisolone
Oral Absorption of 21-Corticosteroid Esters: A Function of Aqueous Stability and Intestinal Enzyme Activity and Distribution, 934
Uptake of Prodrugs by Rat Intestinal Mucosal Cells: Mechanism and Pharmaceutical Implications, 940

Prednisone
Drug–Excipient Interactions Resulting from Powder Mixing III: Solid State Properties and Their Effect on Drug Dissolution, 534

Preservatives
2,3,5-Triphenyltetrazolium Chloride as a Novel Tool in Germicide Dynamics, 912
Dynamics of Disinfection of Selected Preservatives Against *Escherichia coli* correction, 1207

Presystemic elimination
Evaluation of Drug Absorption and Presystemic Metabolism Using an In Situ Intestinal Preparation, 869

Prilocaine
Drug Release Studies on an Oil–Water Emulsion Based on a Eutectic Mixture of Lidocaine and Prilocaine as the Dispersed Phase, 365

Probenecid
Probenecid Disposition by Parallel Michaelis–Menten and Dose-Dependent Pseudo-First-Order Processes, 664

Prodrugs
Pilocarpine Prodrugs I. Synthesis, Physicochemical Properties and Kinetics of Lactonization of Pilocarpic Acid Esters, 36
Prodrugs of 5-Fluorouracil V. 1-Alkoxycarbonyl Derivatives as Potential Prodrug Forms for Improved Rectal or Oral Delivery of 5-Fluorouracil, 522
Intestinal Absorption of 5-Fluorouracil and Its Alkylcarbamoyl Derivatives in the Rat Small Intestine, 676
Pilocarpine Prodrugs II. Synthesis, Stability, Bioconversion, and Physicochemical Properties of Sequentially Labile Pilocarpine Acid Diesters, 775
Uptake of Prodrugs by Rat Intestinal Mucosal Cells: Mechanism and Pharmaceutical Implications, 940
Uptake of Prodrugs by Rat Intestinal Mucosal Cells: Mechanism and Pharmaceutical Implications, 940

Progesterone
Hydrophilic Cyclodextrin Derivatives Enable Effective Oral Administration of Steroidal Hormones, 165

Proliposomes
Proliposomes: A Novel Solution to an Old Problem, 325
Characterization of Proliposomes, 330

1-Propanol
The Effect of Vehicle on the Diffusion of Salicylic Acid Through Hairless Mouse Skin, 744

Propanoylmorphine
Synthesis of 3-*O*- and 6-*O*-Propanoylmorphine—A Reinvestigation and Correction, 787

Propantheline bromide
Kinetics and Mechanism of the Solid-State Decomposition of Propantheline Bromide, 92
Nonlinear Estimation of Kinetic Parameters for Solid-State Hydrolysis of Water-Soluble Drugs, 459
Kinetics and Mechanism of the Solid-State Decomposition of Propantheline Bromide correction, 1207
Nonlinear Estimation of Kinetic Parameters for Solid-State Hydrolysis of Water-Soluble Drugs correction, 1208

Propranolol
A Modified, Sensitive Liquid Chromatographic Method for Measurement of Propranolol with Fluorescence Detection, 87
Interaction Between Antidepressants and Alpha$_1$-Adrenergic Receptor Antagonists on the Binding to Alpha$_1$-Acid Glycoprotein, 146
Elevated Plasma Glycoproteins in Fetal Sheep Do Not Bind Basic Lipophilic Drugs, 881
Inhibition of Binedaline Binding to Human α_1-Acid Glycoprotein and Other Serum Proteins by Chlorpromazine, Imipramine, and Propranolol, 883

Propylene glycol
The Effect of Vehicle on the Diffusion of Salicylic Acid Through Hairless Mouse Skin, 744

Prostaglandin E$_1$–heparin conjugate
In Vitro Bioactivity of a Synthesized Prostaglandin E$_1$–Heparin Conjugate, 172

Protein binding
Interaction Between Antidepressants and Alpha$_1$-Adrenergic Receptor Antagonists on the Binding to Alpha$_1$-Acid Glycoprotein, 146
Albumin-Induced Changes of Fluorescence Spectra of 1-Pyrenebutyric Acid, 193
Association and Transfer Functions for Analysis of Drug Binding to Proteins, 590
Relationship Between the Solubility Parameter and the Binding of Drugs by Plasma Proteins, 639
Molecular Properties of Cetiedil and its Interactions with Erythrocyte Membranes, 654
A Two-Constant Equation for Multiple Albumin-Binding Isotherms, 669
Studies on Drug–Milk Freeze-Dried Formulations I: Bioavailability of Sulfamethizole and Dicumarol Formulations, 692
Extrahepatic Metabolism and Distribution of Aspirin in Vascular Beds of Sheep, 731
6α-Methylprednisolone and 6α-Methylprednisone Plasma Protein Binding in Humans and Rabbits, 760
Elevated Plasma Glycoproteins in Fetal Sheep Do Not Bind Basic Lipophilic Drugs, 881
Inhibition of Binedaline Binding to Human α_1-Acid Glycoprotein and Other Serum Proteins by Chlorpromazine, Imipramine, and Propranolol, 883
Pharmacokinetics of Dopamine-2 Agonists in Rats and Dogs, 925

Protein complexed dyes
Mechanism Studies of Coomassie Blue and Silver Staining of Proteins, 907

Proton–ligand stability constants
Thermodynamic Proton–Ligand and Metal–Ligand Stability Constants of Some Drugs, 190

Proton transfer
Molecular Orbital Calculations of Proton Transfer Involving Amines as Models for the Clastic Binding of Opiates with Their Receptor, 769

Psychoactive Drugs
Pharmacokinetics and Pharmacodynamics of Psychoactive Drugs (Barnett and Chiang, book reviews), 825

Pyrazolo[4,5-*c*]quinolines
Pyrazolo[4,5-*c*]quinolines. 3. Synthesis, Receptor Binding, and ^{13}C NMR Study, 1175

1-Pyrenebutyric acid
Albumin-Induced Changes of Fluorescence Spectra of 1-Pyrenebutyric Acid, 193

Pyrogen testing
Parenteral Quality Control: Sterility, Pyrogen, Particulate, and Package Integrity Testing (Akers, book reviews), 102

Pyrogens
Pyrogens: Endotoxins, LAL Testing, and Depyrogenation (Pearson, book reviews), 822

Pyrrolo[2,3-*d*]pyrimidine derivatives
Inhibition of Vaccinia RNA Guanine 7-Methyltransferase by Compounds Designed as Multisubstrate Adducts, 142

Quasi-elastic light scattering
Action of Hydrochloric Acid on Aluminum Hydroxide–Magnesium Hydroxide Gels and Magaldrate: Quasi-Elastic Light Scattering Studies, 502

Quinolone-3-carboxylic acids
Antibacterial Activity of 6,8-Disubstituted-Quinolone-3-Carboxylic Acids, 1185

mRNA guanine 7-methyltransferase
Inhibition of Vaccinia RNA Guanine 7-Methyltransferase by Compounds Designed as Multisubstrate Adducts, 142

Rabbit model
Effect of a Selected Suppression of the Reticuloendothelial System on the Distribution of Model Carrier Particles, 16

Radiation-protective drugs
Radiation-Protective Drugs and Their Reaction Mechanisms (Livesy, Reed, and Adamson, book reviews), 728

Radiotelemetric system
Comparison of Gastrointestinal pH in Dogs and Humans: Implications on the Use of the Beagle Dog as a Model for Oral Absorption in Humans, 271
Application of a Radiotelemetric System to Evaluate the Performance of Enteric Coated and Plain Aspirin Tablets, 469
Comparison of Gastrointestinal pH in Dogs and Humans: Implications on the Use of the Beagle Dog as a Model for Oral Absorption in Humans correction, 1207

Radiotracer technique
A Novel Radiotracer Method for the Precise Determination of Water Vapor Transmission Rate Characteristics of Packaging Systems, 808

Ranitidine
Lack of Clinically Significant In Vitro and In Vivo Interactions between Ranitidine and Sucralfate, 995

α_1-Receptor antagonists
Interaction Between Antidepressants and Alpha$_1$-Adrenergic Receptor Antagonists on the Binding to Alpha$_1$-Acid Glycoprotein, 146

Receptor binding
Pyrazolo[4,5-*c*]quinolines. 3. Synthesis, Receptor Binding, and ^{13}C NMR Study, 1175

Recirculating perfusion
Comparison of Four Experimental Techniques for Studying Drug Absorption Kinetics in the Anesthetized Rat In Situ, 117

Rectal absorption
Prevention of Molecular Self-Association by Sodium Salicylate: Effect on Methylene Blue, 384
Effects of Salicylic Acid on the Permeability of the Plasma Membrane of the Small Intestine of the Rat: a Fluorescence Spectroscopic Approach to Elucidate the Mechanism of Promoted Drug Absorption, 475
Complete Rectal Absorption of Theophylline in Rats Without Absorption Enhancer, 917

Rectal therapy
Rectal Therapy (Glas, deBlasy, and Prous, book reviews), 828

Redox carrier systems
Improved Delivery Through Biological Membranes XX[1]: Nicotinamide ⇄ Dihydronicotinamide Based Ester-Linked Redox Carrier Systems, 29

Reference markers
Polymeric Dyes: Limitations in Their Use as Reference Markers in Postcibal Studies, 382

Regional drug delivery
Interspecies Scaling of Regional Drug Delivery, 1047

Renal failure
Effect of Renal Failure or Biliary Stasis on the Pharmacokinetics of Amiodarone in the Rat, 150

Respiratory tract absorption
Respiratory Pharmacology and Toxicology (Hollinger, book reviews), 108
An Isolated Perfused Rat Lung Preparation for the Study of Aerosolized Drug Deposition and Absorption, 168
Prediction of Drug Residence Times in Regions of the Human Respiratory Tract Following Aerosol Inhalation, 433
Prediction of Drug Residence Times in Regions of the Human Respiratory Tract Following Aerosol Inhalation correction, 1207

Reticuloendothelial system
Effect of a Selected Suppression of the Reticuloendothelial System on the Distribution of Model Carrier Particles, 16

Rotating-disk hydrodynamics
The Effect of Enzymatic Reaction on Dissolution Rate: Theoretical Analysis and Experimental Test, 195

Rubber stoppers
Contaminants Leached from Rubber Stoppers into a Water Soluble Vitamin E Intravenous Injection Product, 724

Salicylate
Prevention of Molecular Self-Association by Sodium Salicylate: Effect on Methylene Blue, 384
Effects of Salicylic Acid on the Permeability of the Plasma Membrane of the Small Intestine of the Rat: a Fluorescence Spectroscopic Approach to Elucidate the Mechanism of Promoted Drug Absorption, 475
Complete Rectal Absorption of Theophylline in Rats Without Absorption Enhancer, 917

Salicylic acid
Association and Transfer Functions for Analysis of Drug Binding to Proteins, 590
Extrahepatic Metabolism and Distribution of Aspirin in Vascular Beds of Sheep, 731
The Effect of Vehicle on the Diffusion of Salicylic Acid Through Hairless Mouse Skin, 744

Salicyluric acid
Extrahepatic Metabolism and Distribution of Aspirin in Vascular Beds of Sheep, 731

Santonin derivatives
Synthesis and In Vitro Cytotoxic Activity of Semisynthetic Derivatives in the Santonin Series, 784

Secobarbital sodium
Liquid Chromatographic Assays for Barbiturate Injections, 714
Liquid Chromatographic Assays for Barbiturate Injections correction, 1208

Serine proteases
Gabexate Mesylate Inhibition of Serine Proteases: Thermodynamic and Computer-Graphics Analysis, 1171

Sesquiterpene lactones
Synthesis and In Vitro Cytotoxic Activity of Semisynthetic Derivatives in the Santonin Series, 784

Shear
Effect of Shear on the Apparent Viscosity of Amorphous Carbonate Ion Containing Aluminum Hydroxide Suspensions, 297

Silver staining
Mechanism Studies of Coomassie Blue and Silver Staining of Proteins, 907

Similarity principles
Similarity Principles and Intrinsic Geometries: Contrasting Approaches to Interspecies Scaling, 1019

Simultaneous chemical reaction and dissolution concept
Dissolution of Theophylline Monohydrate and Anhydrous Theophylline in Buffer Solutions, 497

Single-pass perfusion
Comparison of Four Experimental Techniques for Studying Drug Absorption Kinetics in the Anesthetized Rat In Situ, 117

Sinusoidal model
The Hepatic Sinusoid is Not Well-Stirred: Estimation of the Degree of Axial Mixing by Analysis of Lobular Concentration Gradients Formed During Uptake of Thyroxine by the Perfused Rat Liver, 233
Convection–Dispersion Modeling of Hepatic Elimination, 321

Site-specific drug delivery
Drug Targeting (Buri and Gumma, book reviews), 728

Skin penetration
Effect of Polyethylene Glycol 400 on the Penetration of Drugs Through Human Cadaver Skin In Vitro, 26
Evaluation of Penetration Enhancement of Lidocaine by Nonionic Surfactants Through Hairless Mouse Skin In Vitro, 176

Sodium bicarbonate
Interactions in the Solid State II: Interaction of Sodium Bicarbonate with Substituted Benzoic Acids in the Presence of Moisture, 546

Sodium dodecyl sulfate
Determination of Sodium Dodecyl Sulfate in Hydrophilic Ointments by Thin-Layer Chromatography With Flame Ionization Detection, 606

Sodium *o*-[^{125}I]iodohippurate
Target Organ Directed Drug Delivery: Evaluation of Renal Infusion of Chromium-51 Ethylenediaminetetraacetate and Sodium *o*-[^{125}I]Iodohippurate in the Wistar Kyoto Rat, 1137

Sodium salicylate
Prevention of Molecular Self-Association by Sodium Salicylate: Effect on Methylene Blue, 384
Effects of Salicylic Acid on the Permeability of the Plasma Membrane of the Small Intestine of the Rat: a Fluorescence Spectroscopic Approach to Elucidate the Mechanism of Promoted Drug Absorption, 475
Association and Transfer Functions for Analysis of Drug Binding to Proteins, 590
Complete Rectal Absorption of Theophylline in Rats Without Absorption Enhancer, 917

Sodium stearyl fumarate
Drug–Excipient Interactions Resulting from Powder Mixing IV: Role of Lubricants and Their Effect on In Vitro Dissolution, 542

Soft elastic gelatin capsules
Reactivity of Enprostil Stereoisomers in Soft Elastic Gelatin Capsules, 842
Multidimensional Column-switching Liquid Chromatographic Method for Dissolution Testing of Enprostil Soft Elastic Gelatin Capsules, 999

Soft gelatin capsules
Water Migration from Soft Gelatin Capsule Shell to Fill Material and Its Effect on Drug Solubility, 62
Water Migration from Soft Gelatin Capsule Shell to Fill Material and Its Effect on Drug Solubility correction, 1208

Solid dispersions
Sustained-Release Delivery Systems, I: Phase Diagram Studies of Dapsone and Selected Derivatives, 53
Sustained-Release Delivery Systems, II: In Vitro Dissolution of 4,4′-Sulfonylbisbenzamine (Dapsone)—*N*-Dodecanoyl-4,4′-sulfonylbisbenzamine Comelts, 264
Sustained-Release Delivery Systems, I: Phase Diagram Studies of Dapsone and Selected Derivatives correction, 1207

Solid-state conformation
Conformation of Glyburide in the Solid State and in Solution, 596
Conformation of Nefopam Hydrochloride, a Novel Analgesic, 772

Solid-state decomposition
Kinetics and Mechanism of the Solid-State Decomposition of Propantheline Bromide, 92
Kinetics and Mechanism of the Solid-State Decomposition of Propantheline Bromide correction, 1207

Solid-state degradation
Stability of Aspirin in Solid Mixtures, 97
Nonlinear Estimation of Kinetic Parameters for Solid-State Hydrolysis of Water-Soluble Drugs, 459
Interactions in the Solid State II: Interaction of Sodium Bicarbonate with Substituted Benzoic Acids in the Presence of Moisture, 546
Nonlinear Estimation of Kinetic Parameters for Solid-State Hydrolysis of Water-Soluble Drugs correction, 1208

Solubility
Determination of Partial Solubility Parameters of Lactose by Gas–Solid Chromatography, 68
Effects of Solvent Polarity on the Acid Dissociation Constants of Benzoic Acids, 182

Linear Solvation Energy Relationships: 36. Molecular Properties Governing Solubilities of Organic Nonelectrolytes In Water, 338
Solubility Properties in Polymers and Biological Media: 6. An Equation for Correlation and Prediction of Solubilities of Liquid Organic Nonelectrolytes in Blood, 350
Drug Release Studies on an Oil–Water Emulsion Based on a Eutectic Mixture of Lidocaine and Prilocaine as the Dispersed Phase, 365
Theoretical Derivation of Solute–Solvent Interaction Parameter in Binary Solution: Case of the Deviation from Raoult's Law, 463
Intrinsic Molecular Volume as a Measure of the Cavity Term in Linear Solvation Energy Relationships: Octanol–Water Partition Coefficients and Aqueous Solubilities, 629
Relationship Between the Solubility Parameter and the Binding of Drugs by Plasma Proteins, 639
Solubilization of Water by Hydrotropic Salts, 644
Water Soluble Complexes of the Antiviral Drugs, 9-[(1,3-Dihydroxy-2-propoxy)methyl]guanine and Acyclovir: The Role of Hydrophobicity in Complex Formation, 648
The Effect of Vehicle on the Diffusion of Salicylic Acid Through Hairless Mouse Skin, 744
Determination of the Dissolution Rate Controlling Process for Isomeric Amides in Alkane Solvents, 1104

Solubility parameter
Linear Solvation Energy Relationships: 36. Molecular Properties Governing Solubilities of Organic Nonelectrolytes In Water, 338
Solubility Properties in Polymers and Biological Media: 6. An Equation for Correlation and Prediction of Solubilities of Liquid Organic Nonelectrolytes in Blood, 350
Theoretical Derivation of Solute–Solvent Interaction Parameter in Binary Solution: Case of the Deviation from Raoult's Law, 463
Intrinsic Molecular Volume as a Measure of the Cavity Term in Linear Solvation Energy Relationships: Octanol–Water Partition Coefficients and Aqueous Solubilities, 629
Relationship Between the Solubility Parameter and the Binding of Drugs by Plasma Proteins, 639

Solubility Parameters
Determination of Partial Solubility Parameters of Lactose by Gas–Solid Chromatography, 68

Solution conformation
Conformation of Glyburide in the Solid State and in Solution, 596

Solution dynamics
^{13}C NMR Studies of the Molecular Flexibility of Antidepressants, 133

Solvatochromic parameter
Solubility Properties in Polymers and Biological Media: 6. An Equation for Correlation and Prediction of Solubilities of Liquid Organic Nonelectrolytes in Blood, 350
Intrinsic Molecular Volume as a Measure of the Cavity Term in Linear Solvation Energy Relationships: Octanol–Water Partition Coefficients and Aqueous Solubilities, 629

Solvatochromic parameters
Linear Solvation Energy Relationships: 36. Molecular Properties Governing Solubilities of Organic Nonelectrolytes In Water, 338

Solvent polarity
Effects of Solvent Polarity on the Acid Dissociation Constants of Benzoic Acids, 182

Sorption
Analysis of Chlorhexidine Sorption in Soft Contact Lenses by Catalytic Oxidation of [^{14}C]Chlorhexidine and by Liquid Chromatography, 83
Kinetics of Sorption of Ionizable Solutes by Plastic Infusion Bags, 562

Spin labeling
Spin Labeling in Pharmacology (Holtzman, book reviews), 431

Spin labels
Human Erythrocyte Membrane Permeability and Nitroxyl Spin-Label Reduction, 334
Molecular Properties of Cetiedil and its Interactions with Erythrocyte Membranes, 654

Spirohydantoin mustard
Spiromustine Analogues. Relationships Between Structure, Plasma Stability, and Antitumor Activity, 313

Spiromustine
Spiromustine Analogues. Relationships Between Structure, Plasma Stability, and Antitumor Activity, 313

Stability
Kinetics and Mechanism of the Solid-State Decomposition of Propantheline Bromide, 92
Stability of Aspirin in Solid Mixtures, 97
Tricyclo[4.2.2.$0^{2,5}$]dec-9-ene-3,4,7,8-tetracarboxylic Acid Diimide: Formulation and Stability Studies, 301
Intramolecular Nucleophilic Amino Attack in a Monobactam: Synthesis and Stability of (2*S*,3*S*)-3-[(2*R*)-2-Amino-2-phenylacetamido]-2-methyl-4-oxo-1-azetidinesulfonic Acid, 304
Spiromustine Analogues. Relationships Between Structure, Plasma Stability, and Antitumor Activity, 313
Proliposomes: A Novel Solution to an Old Problem, 325
Characterization of Proliposomes, 330
Nonlinear Estimation of Kinetic Parameters for Solid-State Hydrolysis of Water-Soluble Drugs, 459
Interactions in the Solid State II: Interaction of Sodium Bicarbonate with Substituted Benzoic Acids in the Presence of Moisture, 546
Stability Studies of Bis(Pyridiniumaldoxime) Reactivators of Organophosphate-Inhibited Acetylcholinesterase, 797
Enhanced Stability of Codeine Sulfate: Effect of pH, Buffer, and Temperature on the Degradation of Codeine in Aqueous Solution, 901
Oral Absorption of 21-Corticosteroid Esters: A Function of Aqueous Stability and Intestinal Enzyme Activity and Distribution, 934
Kinetics and Mechanism of the Solid-State Decomposition of Propantheline Bromide correction, 1207
Nonlinear Estimation of Kinetic Parameters for Solid-State Hydrolysis of Water-Soluble Drugs correction, 1208

Stable-isotope methodology
Stable-Isotope Methodology in the Bioavailability Study of 17α-Methyltestosterone using Gas Chromatography–Mass Spectrometry, 161
Relative Bioavailability of Metaproterenol in Humans Utilizing a Single Dose, Stable Isotope Approach, 886

Statistical methods
Statistical Methods for Pharmaceutical Research Planning, vol. 67 (Bergman and Gittins, book reviews), 823

Stereochemistry
Conformation of Nefopam Hydrochloride, a Novel Analgesic, 772

Sterility testing
Parenteral Quality Control: Sterility, Pyrogen, Particulate, and Package Integrity Testing (Akers, book reviews), 102

Studebaker–Snow method
Use of the Washburn–Rideal Equation for Studying Capillary Flow in Porous Media, 719

Sucralfate
Lack of Clinically Significant In Vitro and In Vivo Interactions between Ranitidine and Sucralfate, 995

Sulfamethizole
Studies on Drug–Milk Freeze-Dried Formulations I: Bioavailability of Sulfamethizole and Dicumarol Formulations, 692

Sulfinpyrazone
Determination of Azobenzene and Hydrabenzene in Phenylbutazone and Sulfinpyrazone Products by High Performance Liquid Chromatography correction, 1207

Sulfonamides
Antibiotics and Chemotherapy: Pharmacokinetics of Sulfonamides Revisited, vol. 34 (Vree and Hekster, book reviews), 103

4,4′-sulfonylbisbenzamine
Sustained-Release Delivery Systems, I: Phase Diagram Studies of Dapsone and Selected Derivatives, 53
Sustained-Release Delivery Systems, II: In Vitro Dissolution of 4,4′-Sulfonylbisbenzamine (Dapsone)—*N*-Dodecanoyl-4,4′-sulfonylbisbenzamine Comelts, 264
Sustained-Release Delivery Systems, I: Phase Diagram Studies of Dapsone and Selected Derivatives correction, 1207

Suppression
Effect of a Selected Suppression of the Reticuloendothelial System on the Distribution of Model Carrier Particles, 16

Surface properties
Surface Electric Charge of the Active and Inactive Polymorphs of Chloramphenicol Palmitate, 187
Effect of Shear on the Apparent Viscosity of Amorphous Carbonate Ion Containing Aluminum Hydroxide Suspensions, 297
Ionization and Surface Properties of Verapamil and Several Verapamil Analogues, 976

Suspensions
Effect of Shear on the Apparent Viscosity of Amorphous Carbonate Ion Containing Aluminum Hydroxide Suspensions, 297

Sustained-release granules
Sustained Release of Nifedipine from Granules, 57

Swelling studies
Swelling Studies of Gelatin I: Gelatin Without Additives, 790
Swelling Studies of Gelatin I: Gelatin Without Additives correction, 1208

Synthetic methods
Specialist Periodical Reports: General and Synthetic Methods, vol. 7. (Pattenden, book reviews), 108

Target organ directed drug delivery
Target Organ Directed Drug Delivery: Evaluation of Renal Infusion of Chromium-51 Ethylenediaminetetraacetate and Sodium *o*-[^{125}I]Iodohippurate in the Wistar Kyoto Rat, 1137

Temelastine
Measurement of Concentrations of the Histamine H_1 Receptor Antagonist Temelastine in Biological Fluids, 813

Testosterone
Hydrophilic Cyclodextrin Derivatives Enable Effective Oral Administration of Steroidal Hormones, 165

Tetrabenazine
Direct Injection High-Performance Liquid Chromatography of Tetrabenazine and Its Metabolite in Plasma of Humans and Rats, 1006

Tetracycline
Thermodynamic Proton–Ligand and Metal–Ligand Stability Constants of Some Drugs, 190

Theophylline
Comparison of Four Experimental Techniques for Studying Drug Absorption Kinetics in the Anesthetized Rat In Situ, 117
Dissolution of Theophylline Monohydrate and Anhydrous Theophylline in Buffer Solutions, 497
The Effect of Vehicle on the Diffusion of Salicylic Acid Through Hairless Mouse Skin, 744
Complete Rectal Absorption of Theophylline in Rats Without Absorption Enhancer, 917
The Effect of Activated Charcoal on the Volume of Distribution of Drugs, 923
Influence of a High Fat Breakfast on the Bioavailability of Theophylline Controlled-Release Formulations: An In Vitro Demonstration of an In Vivo Observation, 1205

Thermodynamic functions
Dissolution and Partition Thermodynamic Functions of Some Nonsteroidal Anti-inflammatory Drugs, 23

7-Thiaprostaglandin E_1 analogues
Dehydration and Epimerization of 7-Thiaprostaglandin E_1 Analogues, 992

Thyroid preparations
Determination of Liothyronine and Levothyroxine in Thyroid Preparations by Liquid Chromatography, 215

Thyrotropin releasing hormone
Comparison Between the Iontophoretic and Passive Transport of Thyrotropin Releasing Hormone Across Excised Nude Mouse Skin, 738

Thyroxine
The Hepatic Sinusoid is Not Well-Stirred: Estimation of the Degree of Axial Mixing by Analysis of Lobular Concentration Gradients Formed During Uptake of Thyroxine by the Perfused Rat Liver, 233

Tiaprofenic acid
Pharmacokinetics of the Enantiomers of Tiaprofenic Acid in Humans, 439

Tilorone
Effect of the Immunomodulator Tilorone on Antipyrine Disposition in the Rat, 946

Toxicological studies
Toxicity of Benzyl Alcohol in Adult and Neonatal Mice, 702
Toxicology of Inhaled Materials (Witschi and Brain, book reviews), 728
Dosage Regimen Design for Pharmaceutical Studies Conducted in Animals, 852
Dissociation of Increased Sulfation from Sulfate Replenishment and Hepatoprotection in Acetaminophen-Poisoned Mice by *N*-Acetylcysteine Stereoisomers, 878
In Vitro Coadsorption of Acetaminophen and *N*-Acetylcysteine onto Activated Carbon Powder, 904
The Effect of Activated Charcoal on the Volume of Distribution of Drugs, 923
Animal Extrapolation and the Challenge of Human Heterogeneity, 1041
Cytotoxic Effects of 1,2-Dichloroethane, Nitrobenzene, and Carbon Disulfide on Human KB and Monkey AGMK Cells, 1190

Transdermal delivery
Modeling and Numerical Computation of Drug Transport in Laminates: Model Case Evaluation of Transdermal Delivery System, 9
Pharmacodynamic Measurement of Percutaneous Penetration Enhancement In Vivo, 374
Relative Bioavailability of a New Transdermal Nitroglycerin Delivery System, 688
Comparison Between the Iontophoretic and Passive Transport of Thyrotropin Releasing Hormone Across Excised Nude Mouse Skin, 738
The Effect of Vehicle on the Diffusion of Salicylic Acid Through Hairless Mouse Skin, 744
Percutaneous Penetration of Nicotinates: In Vivo and In Vitro Measurements, 968
Dermal Penetration Enhancement Profile of Hexamethylenelauramide and Its Homologues: In Vitro Versus In Vivo Behavior of Enhancers in the Penetration of Hydrocortisone, 1089
Methods for In Vitro Percutaneous Absorption Studies VII: Use of Excised Human Skin, 1094
Permeation of Mouse Skin and Silicone Rubber Membranes by Phenols: Relationship to In Vitro Partitioning, 1098

Trazodone
Interaction Between Antidepressants and $Alpha_1$-Adrenergic Receptor Antagonists on the Binding to $Alpha_1$-Acid Glycoprotein, 146

Triamterene
Metabolic Fate and Solubility of Triamterene—Not an Explanation for Triamterene Nephrolithiasis, 129

Tricyclic antidepressants
^{13}C NMR Studies of the Molecular Flexibility of Antidepressants, 133
Interaction Between Antidepressants and $Alpha_1$-Adrenergic Receptor Antagonists on the Binding to $Alpha_1$-Acid Glycoprotein, 146
Pharmacokinetics of Dothiepin in Humans: A Single Dose Dose–Proportionality Study, 582

Tricyclo[4.2.2.0^{2,5}]dec-9-ene-3,4,7,8-tetracarboxylic acid diimide
Tricyclo[4.2.2.0^{2,5}]dec-9-ene-3,4,7,8-tetracarboxylic Acid Diimide: Formulation and Stability Studies, 301

Trifluoromethyl group
When Is a Trifluoromethyl Group More Lipophilic than a Methyl Group? Partition Coefficients and Selected Chemical Shifts of Aliphatic Alcohols and Trifluoroalcohols, 987

Trimazosin
Interaction Between Antidepressants and $Alpha_1$-Adrenergic Receptor Antagonists on the Binding to $Alpha_1$-Acid Glycoprotein, 146

Trimipramine
^{13}C NMR Studies of the Molecular Flexibility of Antidepressants, 133

2,3,5-Triphenyltetrazolium chloride
2,3,5-Triphenyltetrazolium Chloride as a Novel Tool in Germicide Dynamics, 912

Triterpenes
Plant Anticancer Agents XXXIX: Triterpenes from *Iris missouriensis* (Iridaceae)[1], 317

Uni-enzyme
A Simulation Study on the Effect of a Uniform Diffusional Barrier Across Hepatocytes on Drug Metabolism by Evenly or Unevenly Distributed Uni-enzyme in the Liver, 3

Uranyl nitrate
Effect of Renal Failure or Biliary Stasis on the Pharmacokinetics of Amiodarone in the Rat, 150

Vaccinia virus capping enzyme complex
Inhibition of Vaccinia RNA Guanine 7-Methyltransferase by Compounds Designed as Multisubstrate Adducts, 142

Valpromide
Computerized Model for Evaluating the Kinetics of In Vitro Release of Valpromide from Controlled-Release Tablets Under Nonsink Conditions, 959

Vasodilating activity
Dehydropipernonaline, an Amide Possessing Coronary Vasodilating Activity, Isolated from *Piper longum* L., 1188

Venous equilibrium model
The Hepatic Sinusoid is Not Well-Stirred: Estimation of the Degree of Axial Mixing by Analysis of Lobular Concentration Gradients Formed During Uptake of Thyroxine by the Perfused Rat Liver, 233
Convection–Dispersion Modeling of Hepatic Elimination, 321
Hepatic Binding and Michaelis–Menten Metabolism of Drugs, 660

Verapamil
Ionization and Surface Properties of Verapamil and Several Verapamil Analogues, 976

Verapamil analogues
Ionization and Surface Properties of Verapamil and Several Verapamil Analogues, 976

Vincamine
Disposition Kinetics and Oral Bioavailability of Vincamine-Loaded Polyalkyl Cyanoacrylate Nanoparticles, 955

Virology
Applied Virology (Kurstak, book reviews), 107

Viscosity
Effect of Shear on the Apparent Viscosity of Amorphous Carbonate Ion Containing Aluminum Hydroxide Suspensions, 297

Vitamin E
Contaminants Leached from Rubber Stoppers into a Water Soluble Vitamin E Intravenous Injection Product, 724

Washburn–Rideal equation
Use of the Washburn–Rideal Equation for Studying Capillary Flow in Porous Media, 719

Water solubility
Dissolution and Partition Thermodynamic Functions of Some Nonsteroidal Anti-inflammatory Drugs, 23

Water vapor transmission
A Novel Radiotracer Method for the Precise Determination of Water Vapor Transmission Rate Characteristics of Packaging Systems, 808

Wetting
Use of the Washburn–Rideal Equation for Studying Capillary Flow in Porous Media, 719

X-ray diffraction
Conformation of Nefopam Hydrochloride, a Novel Analgesic, 772
Compressed Pellet X-ray Diffraction Monitoring for Optimization of Crystallinity in Lyophilized Solids: Imipenem:Cilastatin Sodium Case, 805

Zeorin
Plant Anticancer Agents XXXIX: Triterpenes from *Iris missouriensis* (Iridaceae)[1], 317

Zeta-potential values
Surface Electric Charge of the Active and Inactive Polymorphs of Chloramphenicol